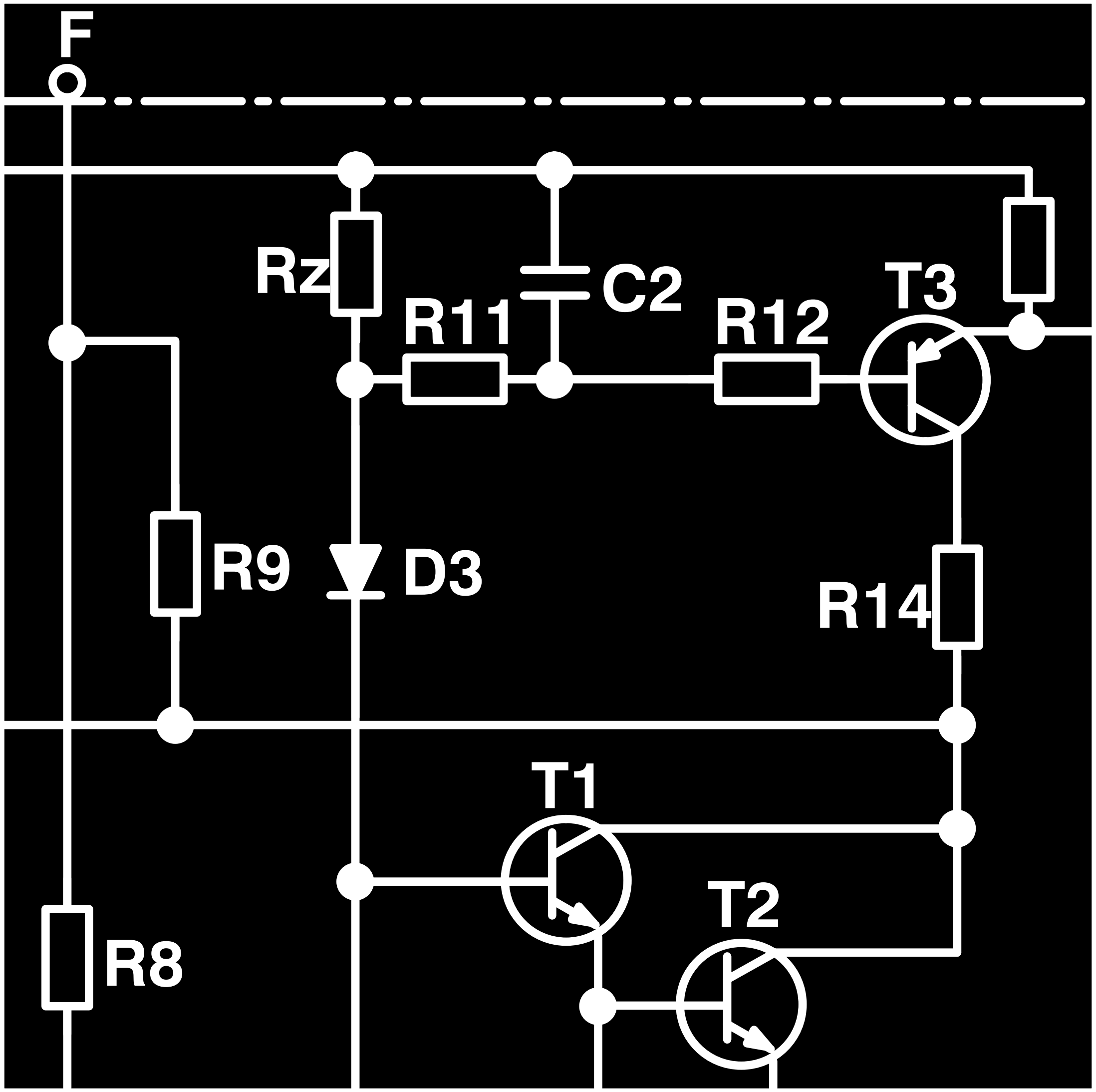


1999

BMW Z3 (E36/7)
Z3 Roadster, Z3 Coupe, M Roadster, M Coupe

Electrical Troubleshooting Manual

Vehicles produced 9/98 thru 03/99

PN 01 00 0 009 430

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36/7 (Z3 Roadster, Z3 Coupe, M Roadster, and M Coupe)

SCHEMATICS MODEL YEAR 1999

PART NUMBER 01 00 0 009 430

0100.0 INDEX

INDEX

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self–explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

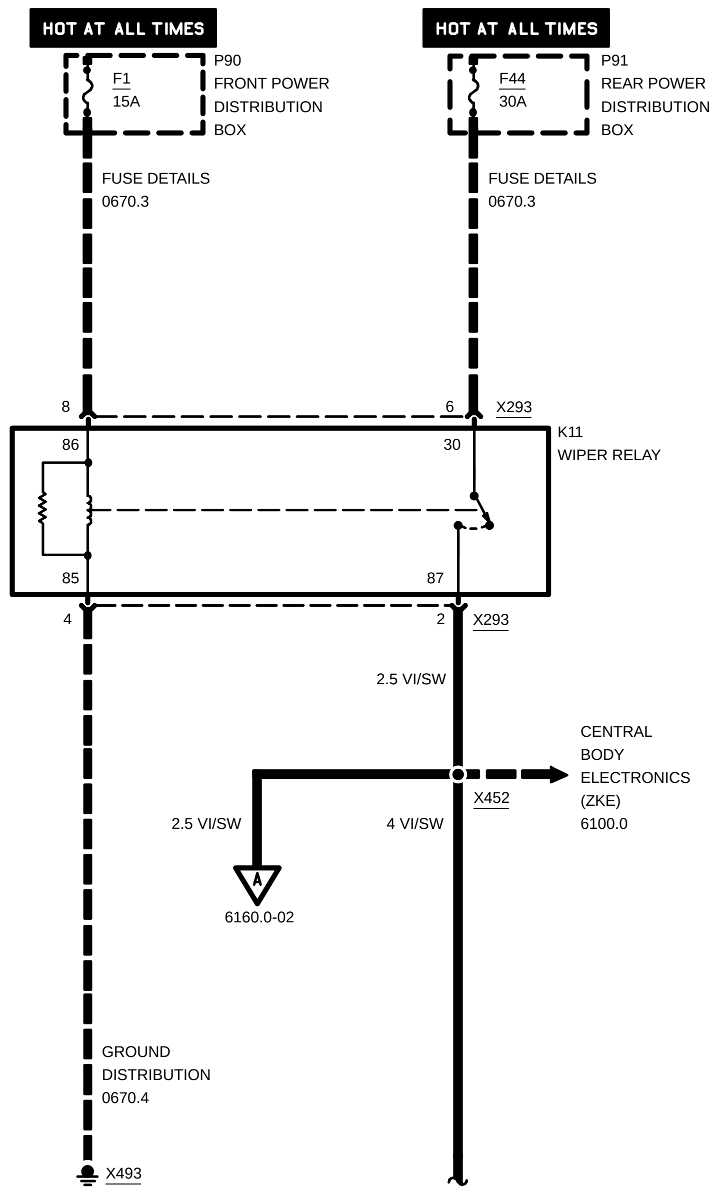
All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

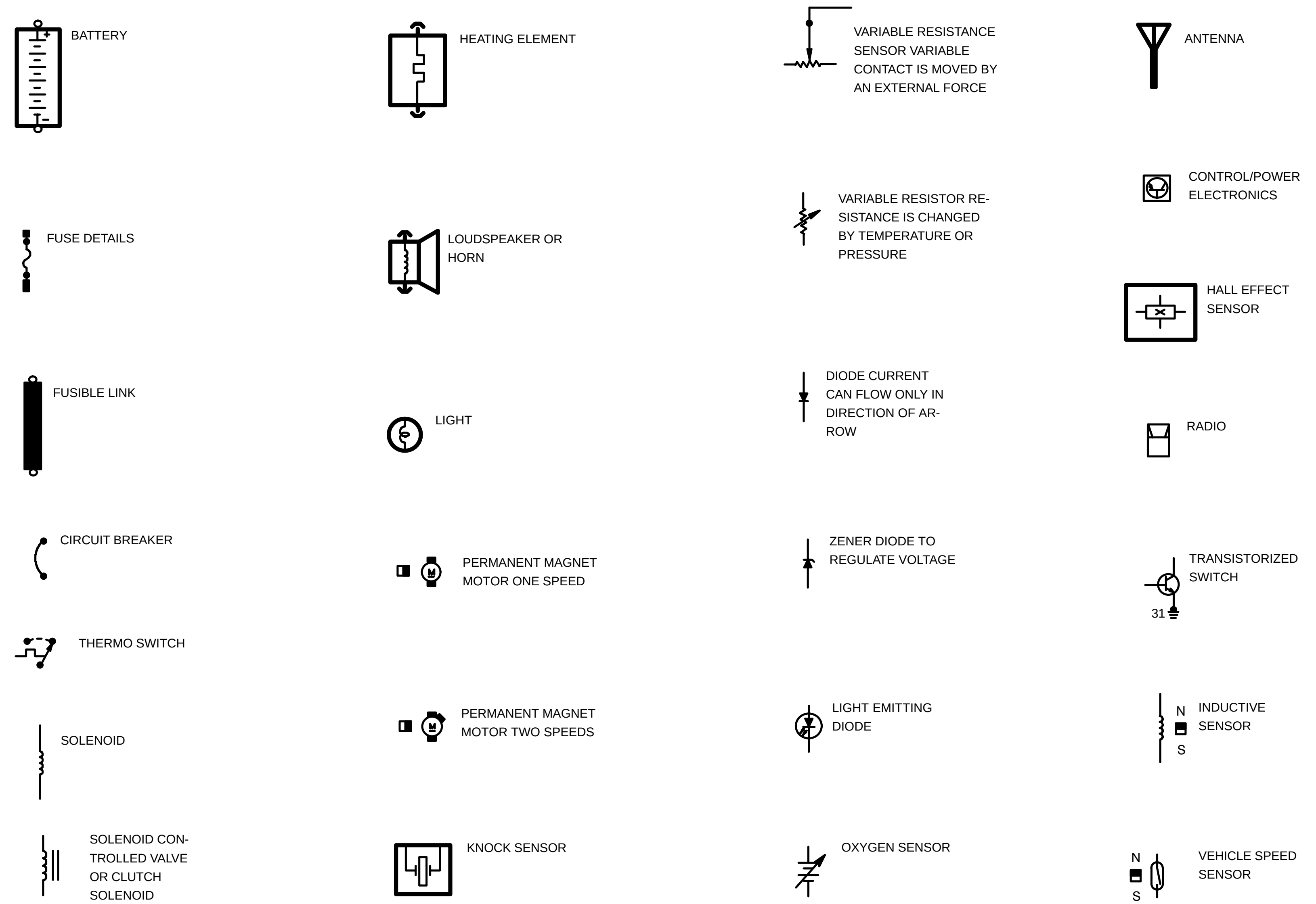
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

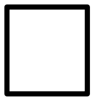
8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0–02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

BMW 3 Z3

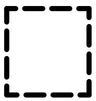
0140.0 SYMBOLS



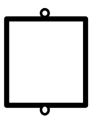
SYMBOLS



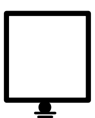
ENTIRE COM-
PONENT SHOWN



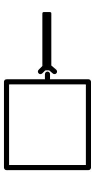
PART OF COM-
PONENT SHOWN



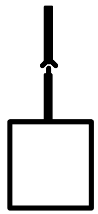
COMPONENT WITH
SCREW TERMI-
NALS



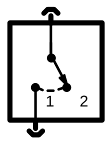
COMPONENT CASE
ATTACHED DI-
RECTLY TO METAL
PART OF CAR
(GROUNDED)



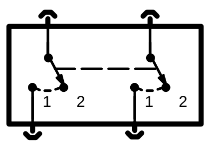
CONNECTOR AT-
TACHED TO COM-
PONENT



CONNECTOR AT-
TACHED TO COM-
PONENT LEAD
(PIGTAIL)



ONE POLE, TWO
POSITION SWITCH



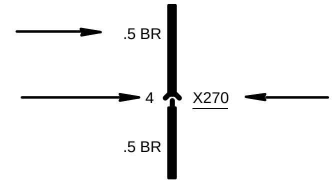
SWITCHES THAT
MOVE TOGETHER

DASHED LINE
SHOWS A ME-
CHANICAL CON-
NECTION
BETWEEN
SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

WIRE INSULATION
IS ONE COLOR

PIN NUMBER

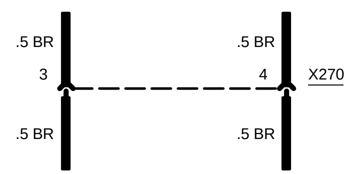


CONNECTOR REF-
ERENCE NUMBER
FOR COMPONENT
LOCATION CHART

WIRE INSULATION
IS ONE COLOR
WITH ANOTHER
COLOR STRIPE
(GREEN WITH
WHITE)



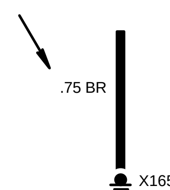
A WAVY LINE
MEANS WIRE IS
CONTINUED



TWO CONNEC-
TIONS (PINS) IN
THE SAME
CONNECTOR

DASHED LINE INDI-
CATES TERMINALS
OF THE SAME
CONNECTOR

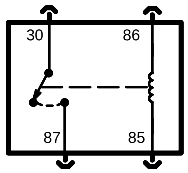
WIRE SIZE IN MM
SQUARED



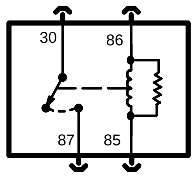
WIRE ATTACHED
TO METAL PART
OF CAR
(GROUNDED)

GROUND NUM-
BERED FOR REF-
ERENCE ON COM-
PONENT LOCATION
CHART

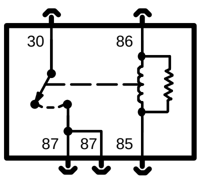
SYMBOLS



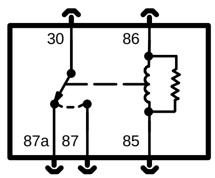
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

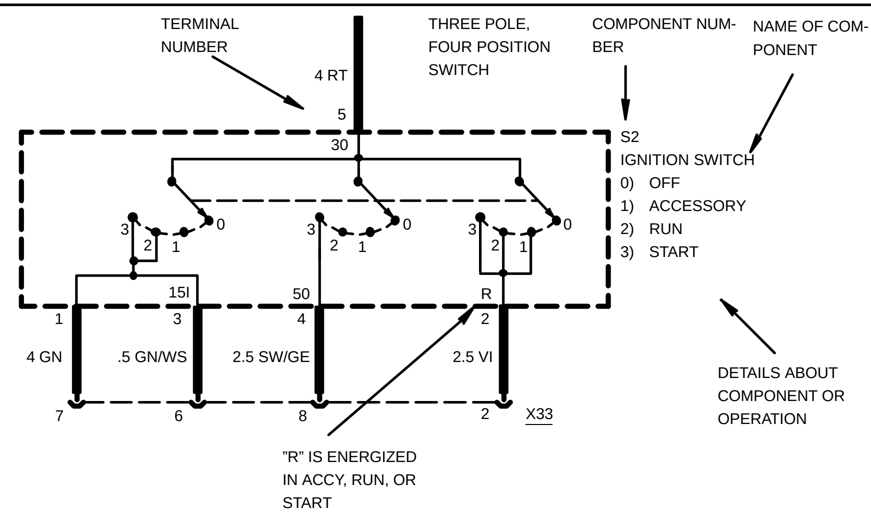


CONTACT RELAY WITH TWO OUTPUTS



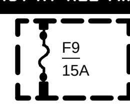
CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

HOT AT ALL TIMES

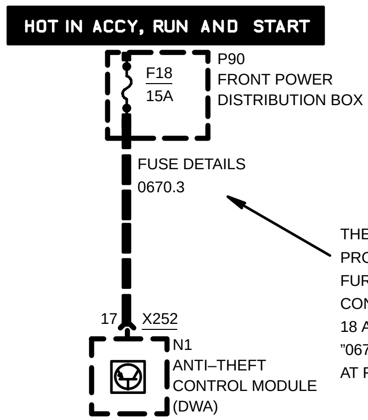


INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

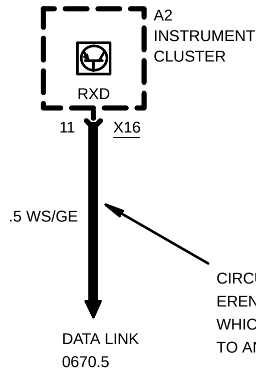
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

BMW 3 Z3

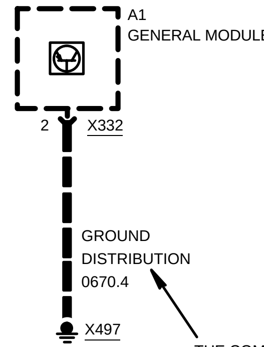
SYMBOLS



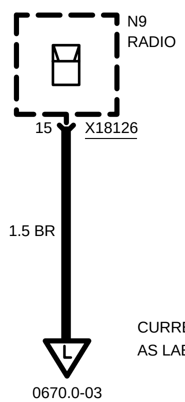
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18



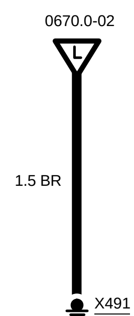
CIRCUIT REFERENCE–A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497



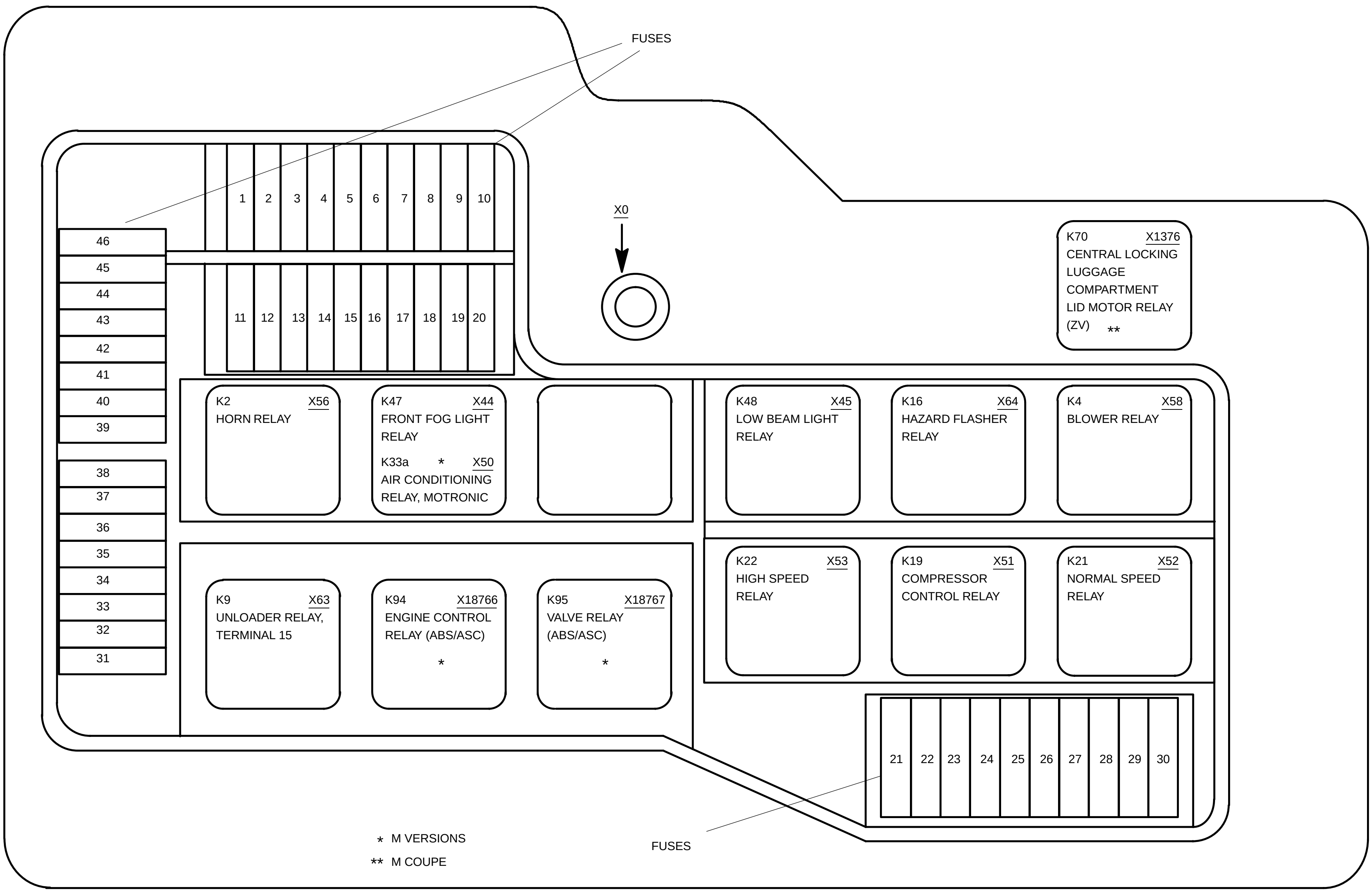
CURRENT PATH IS CONTINUED AS LABELED



ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES

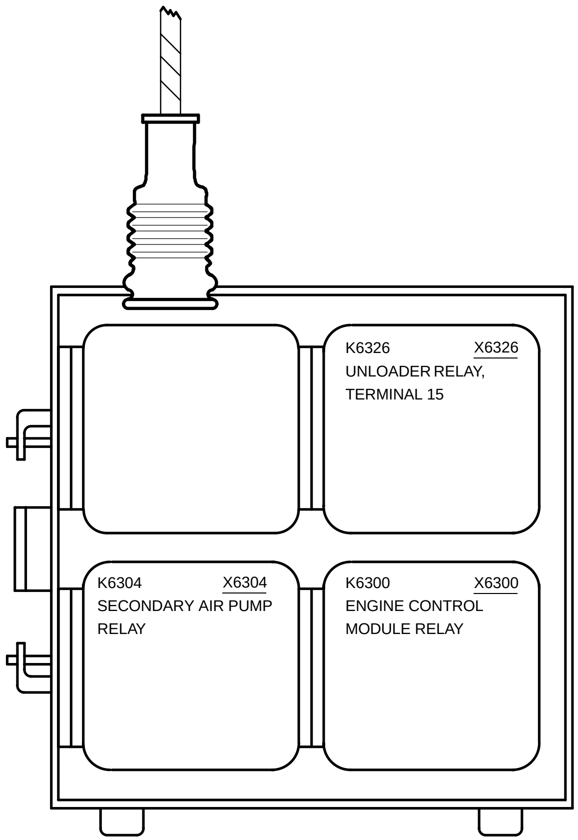
0670.0 POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX

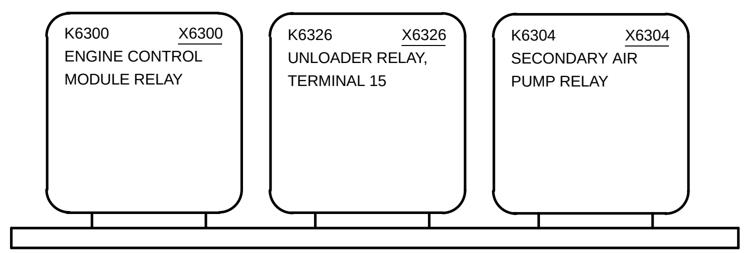


POWER DISTRIBUTION CHART

IN E–BOX



M VERSIONS

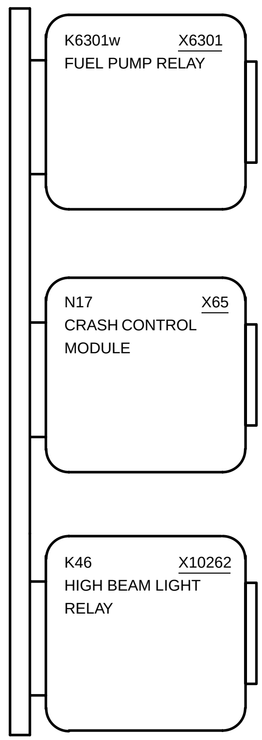


Z3 VERSIONS

POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD

BMW 3 Z3

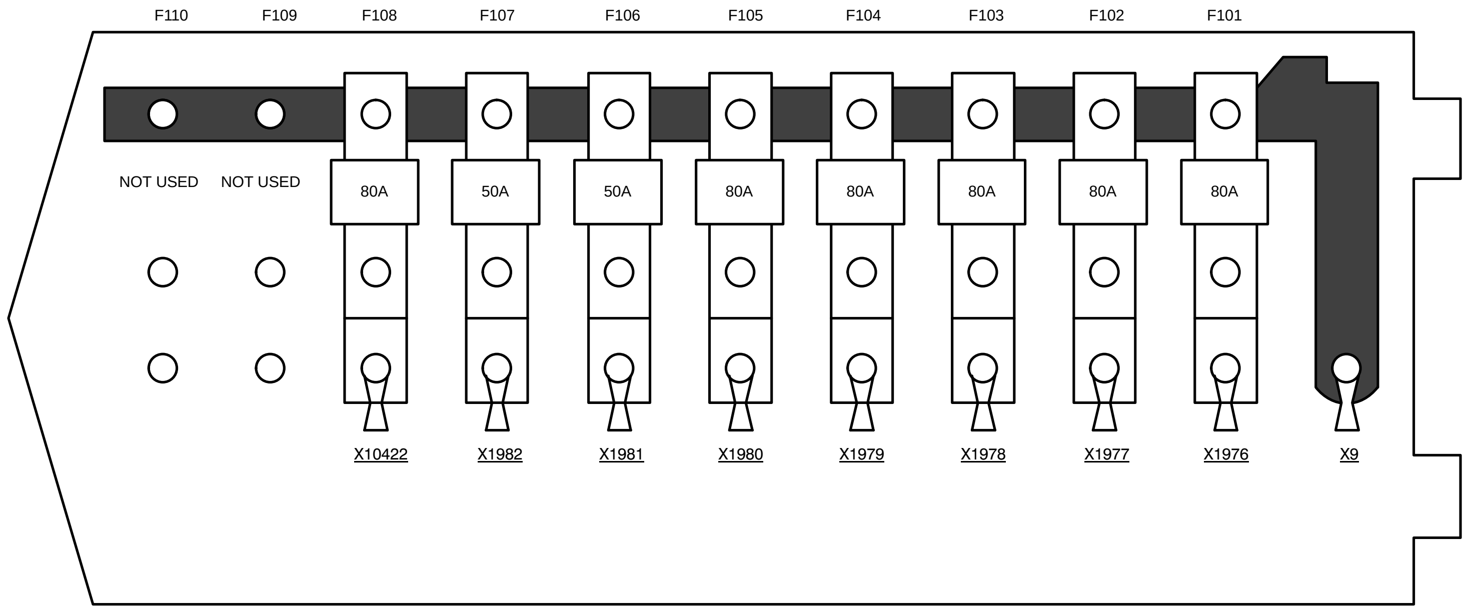


POWER DISTRIBUTION CHART

Z3 VERSIONS

BMW 3 Z3

B+ JUNCTION POINT UNDER LH SIDE OF DASHBOARD



0670.1 FUSE CHART

FUSES 1 TO 29

* M VERSIONS

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	*15A 10A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	*5A 7.5A	30A	10A	5A		15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)													●			●		●											
1210.25	ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)													●			●		●								●	●		
1230.0	CHARGING SYSTEM																										●	●		
1240.0	START																												●	
1290.0	E–BOX FAN																										●			
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																								●			●		
3450.1	SLIP CONTROL (ABS/ASC)										●			●								●						●		
3614.0	TIRE INFLATION SYSTEM																													
5116.0	POWER MIRRORS																								●					
5126.0	ZKE CENTRAL LOCKING (ZV)							●																						
5133.0	ZKE POWER WINDOWS (FH)														●															
5200.0	POWER SEATS					●														●										
5203.0	HEATED SEATS				●																									
5410.5	POWER TILT SUNROOF																								●					
5430.2	ELECTRO–HYDRAULIC CONVERTIBLE TOP	●																												
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)		●												●															
6133.0	HORN								●																					
6135.1	DRIVE–AWAY PROTECTION (EWS III)																												●	
6160.1	WIPER/WASHER MODULE (WWM)	●		●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										

BMW 3 Z3

FUSE CHART

FUSES 1 TO 29

* M VERSIONS

		FUSE NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	*15A 10A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	*5A 7.5A	30A	10A	5A		15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER				●			●																●			●	●		
6213.3	DIGITAL CLOCK																													
6300.0	LIGHT SWITCH DETAILS																						●	●		●				
6312.0	HEADLIGHTS/FOG LIGHTS											●	●			●							●	●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS													●																
6330.3	INTERIOR LIGHTS		●																											
6332.0	INTERIOR ACCESSORIES																													
6350.0	CRASH CONTROL MODULE											●	●													●				
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.6	INTEGRATED HEATING– AND CLIMATE CONTROL																●				●				●					
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)													●													●			
6575.2	ANTI–THEFT SYSTEM (ALPINE)																													
6581.3	BOARD COMPUTER (BC – LOW)																													

BMW 3

Z3

FUSE CHART

FUSES 30 TO 205

		FUSE NUMBER																							
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	202	203	204	205
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A	50A	30A	20A	30A	30A
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)										●														
1210.25	ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)										●							●				●	●	●	●
1230.0	CHARGING SYSTEM																								
1240.0	START		●														●								
1290.0	E–BOX FAN																								
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																	●						●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)												●	●											
3450.1	SLIP CONTROL (ABS/ASC)									●								●			●				
3614.0	TIRE INFLATION SYSTEM																								
5116.0	POWER MIRRORS																								
5126.0	ZKE CENTRAL LOCKING (ZV)						●								●										
5133.0	ZKE POWER WINDOWS (FH)																								
5200.0	POWER SEATS																								
5203.0	HEATED SEATS																								
5410.5	POWER TILT SUNROOF																								
5430.2	ELECTRO–HYDRAULIC CONVERTIBLE TOP																	●							
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●										
6133.0	HORN														●										
6135.1	DRIVE–AWAY PROTECTION (EWS III)		●														●								
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●									
6167.1	HEADLIGHT WASHER (SRA)							●								●									

BMW 3
Z3

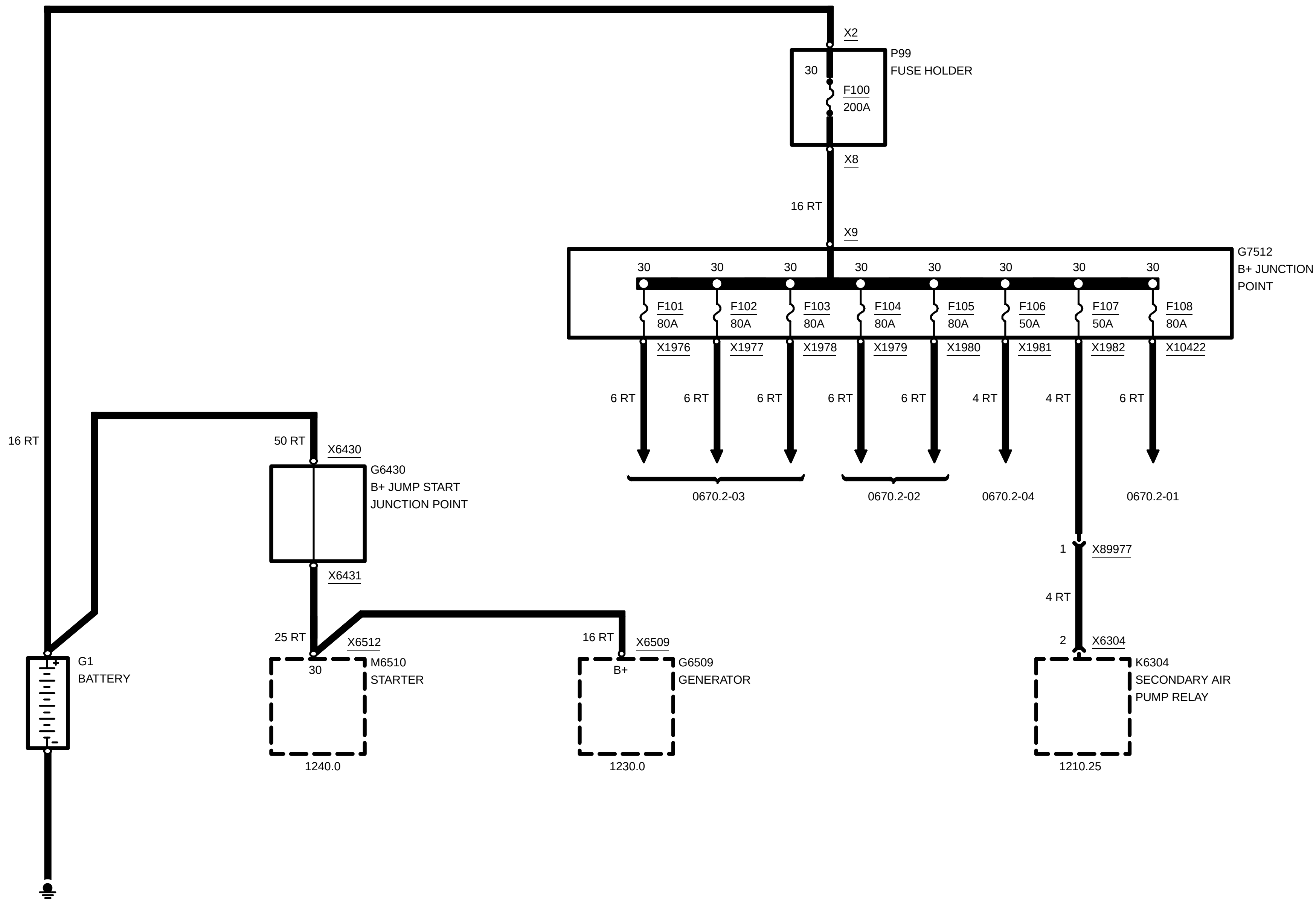
FUSE CHART

FUSES 30 TO 205

		FUSE NUMBER																												
		30	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**				**202**	**203**	**204**	**205**		
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A	50A				30A	20A	30A	30A		
6169.0	WINDSHIELD WASHER JET HEATERS																													
6211.0	INSTRUMENT CLUSTER		●															●												
6213.3	DIGITAL CLOCK		●														●													
6300.0	LIGHT SWITCH DETAILS				●				●																					
6312.0	HEADLIGHTS/FOG LIGHTS	●																												
6313.0	TURN/HAZARD LIGHTS					●																								
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●																					
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●																					
6322.0	BACK UP LIGHTS																													
6325.0	BRAKE LIGHTS																	●												
6330.3	INTERIOR LIGHTS				●										●															
6332.0	INTERIOR ACCESSORIES			●					●																					
6350.0	CRASH CONTROL MODULE					●																								
6424.0	REAR WINDOW DEFOGGER																													
6450.6	INTEGRATED HEATING– AND CLIMATE CONTROL										●	●								●										
6510.1	RADIO/HIFI															●														
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●											●														
6571.0	CRUISE CONTROL (TEMPOMAT)																	●												
6575.2	ANTI–THEFT SYSTEM (ALPINE)		●												●															
6581.3	BOARD COMPUTER (BC – LOW)		●															●												

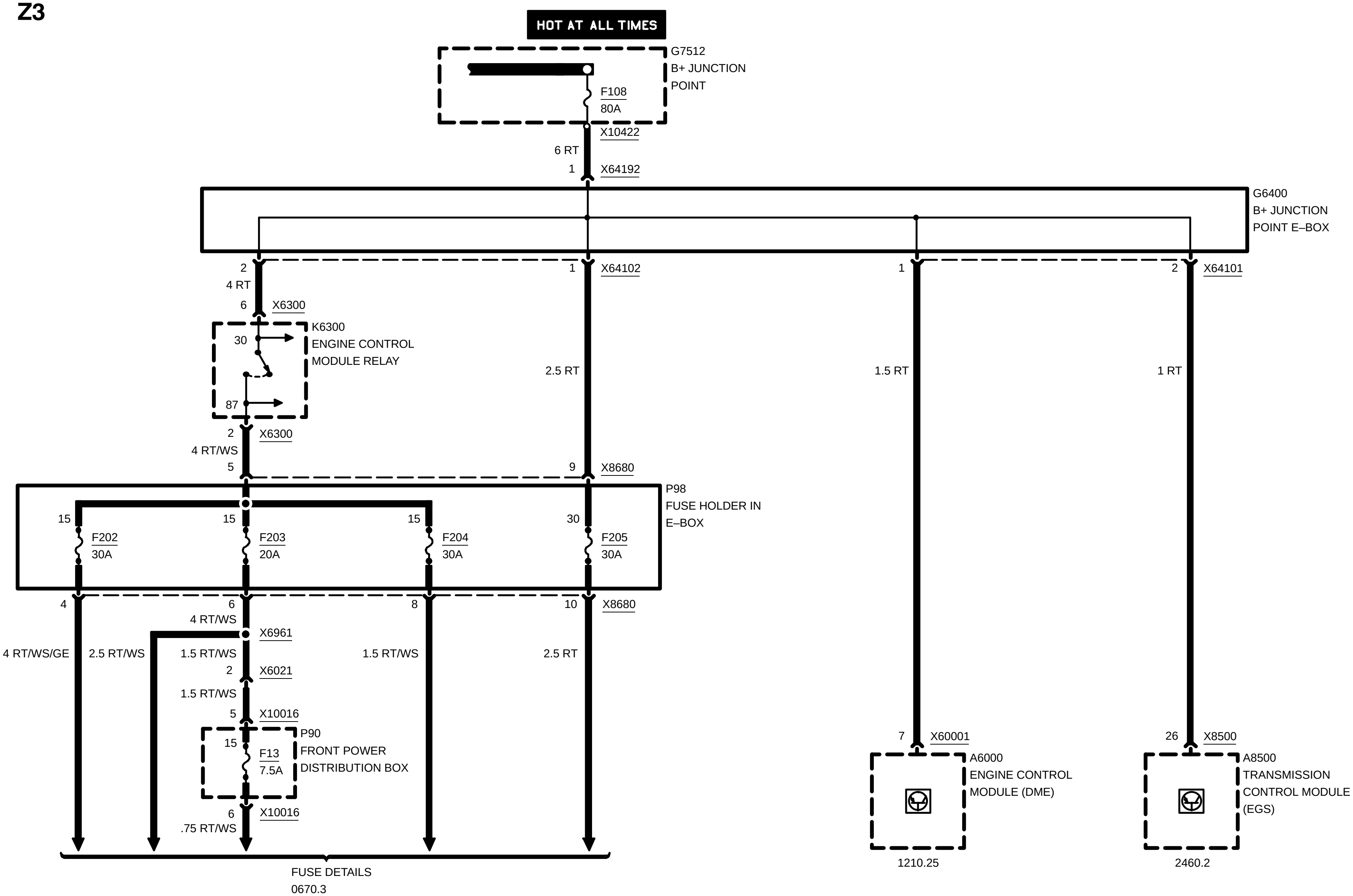
0670.2 POWER DISTRIBUTION

Z3 VERSIONS



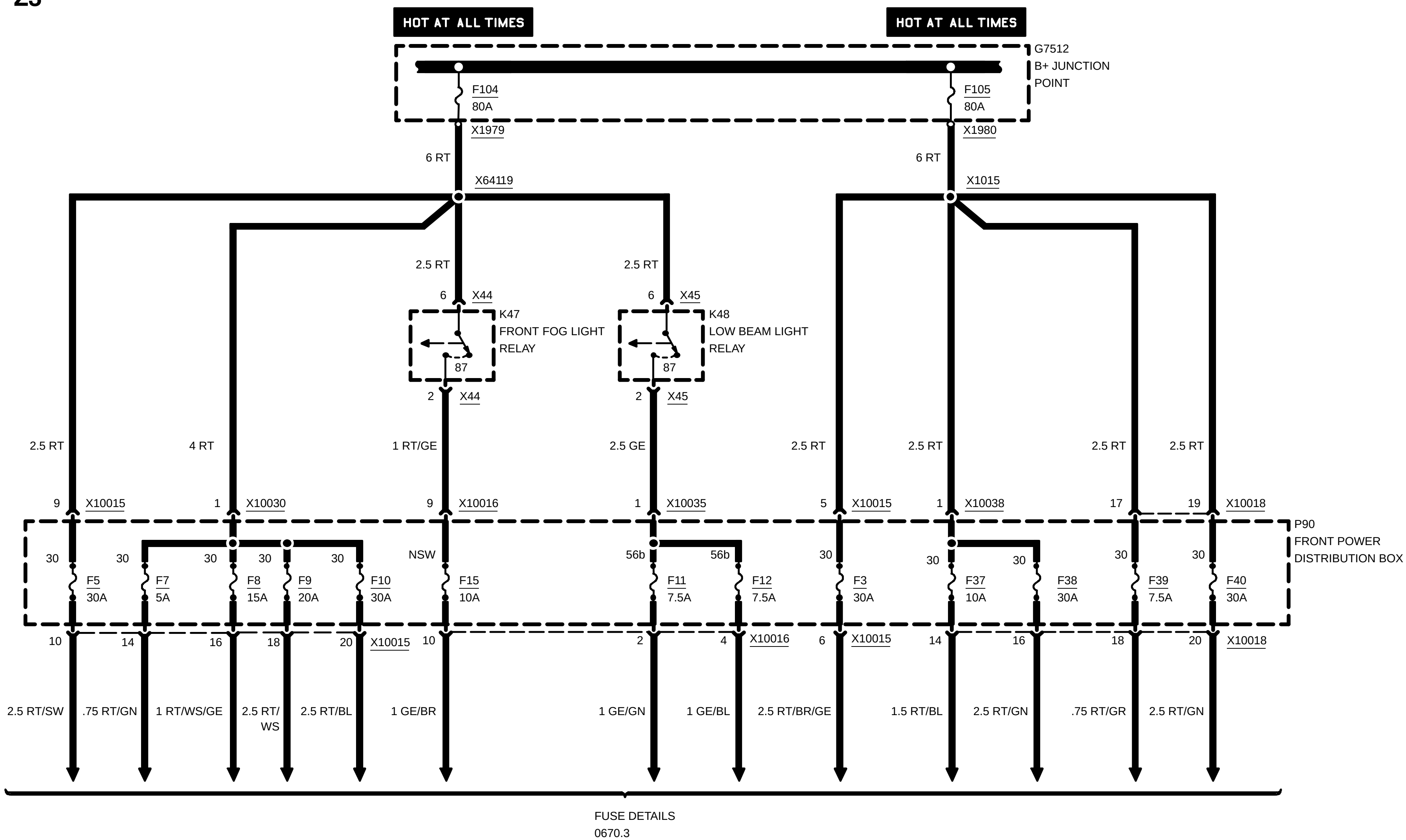
POWER DISTRIBUTION

Z3 VERSIONS



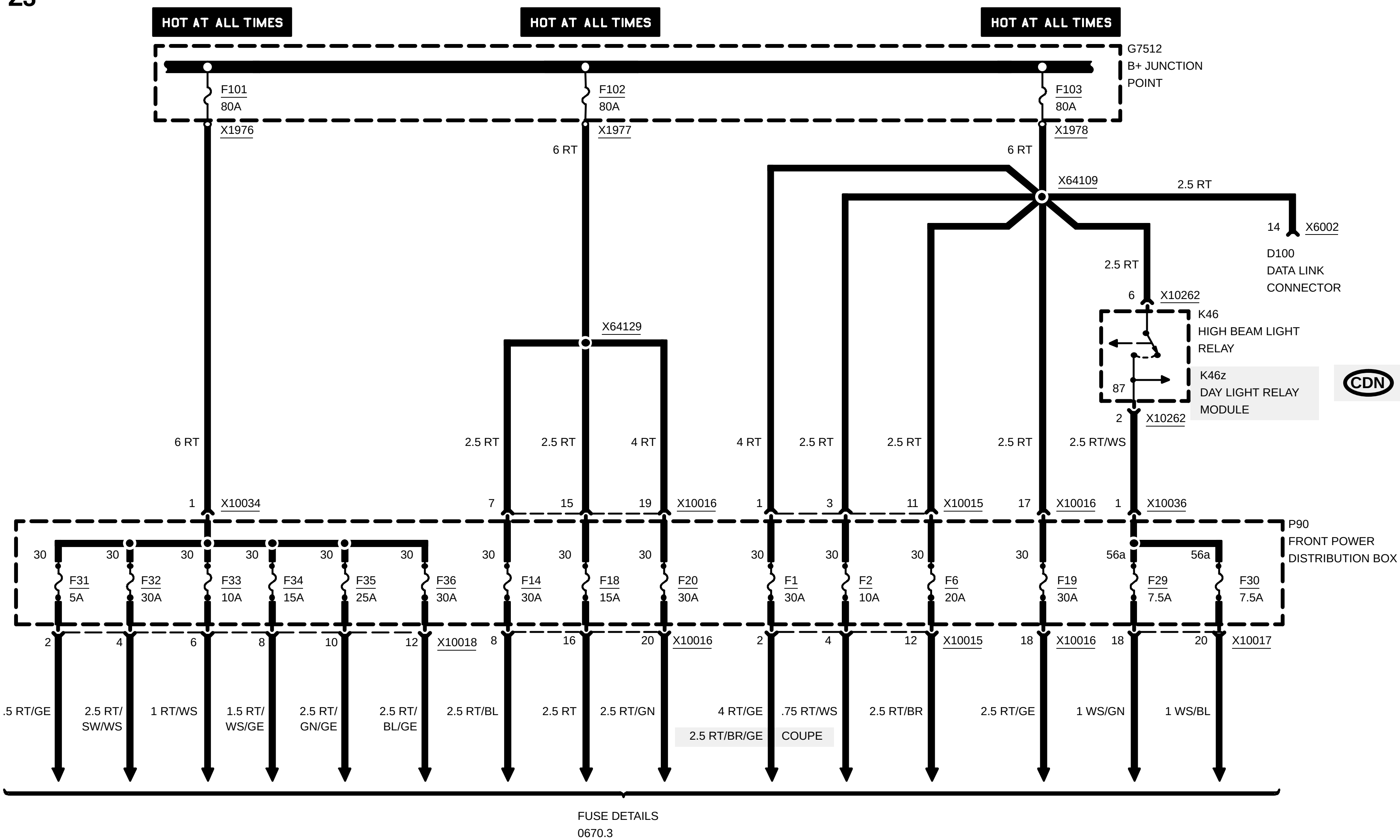
POWER DISTRIBUTION

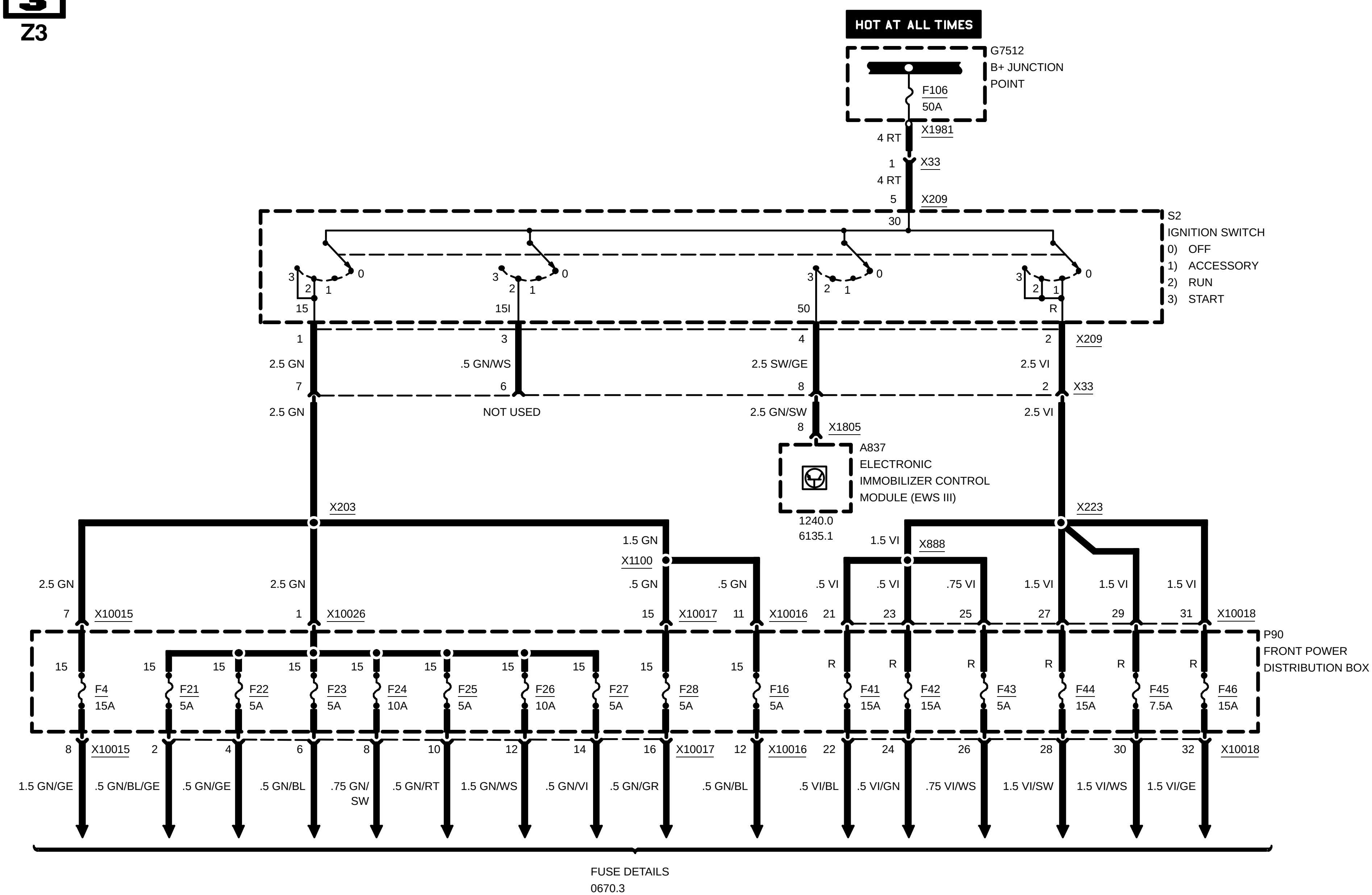
Z3 VERSIONS

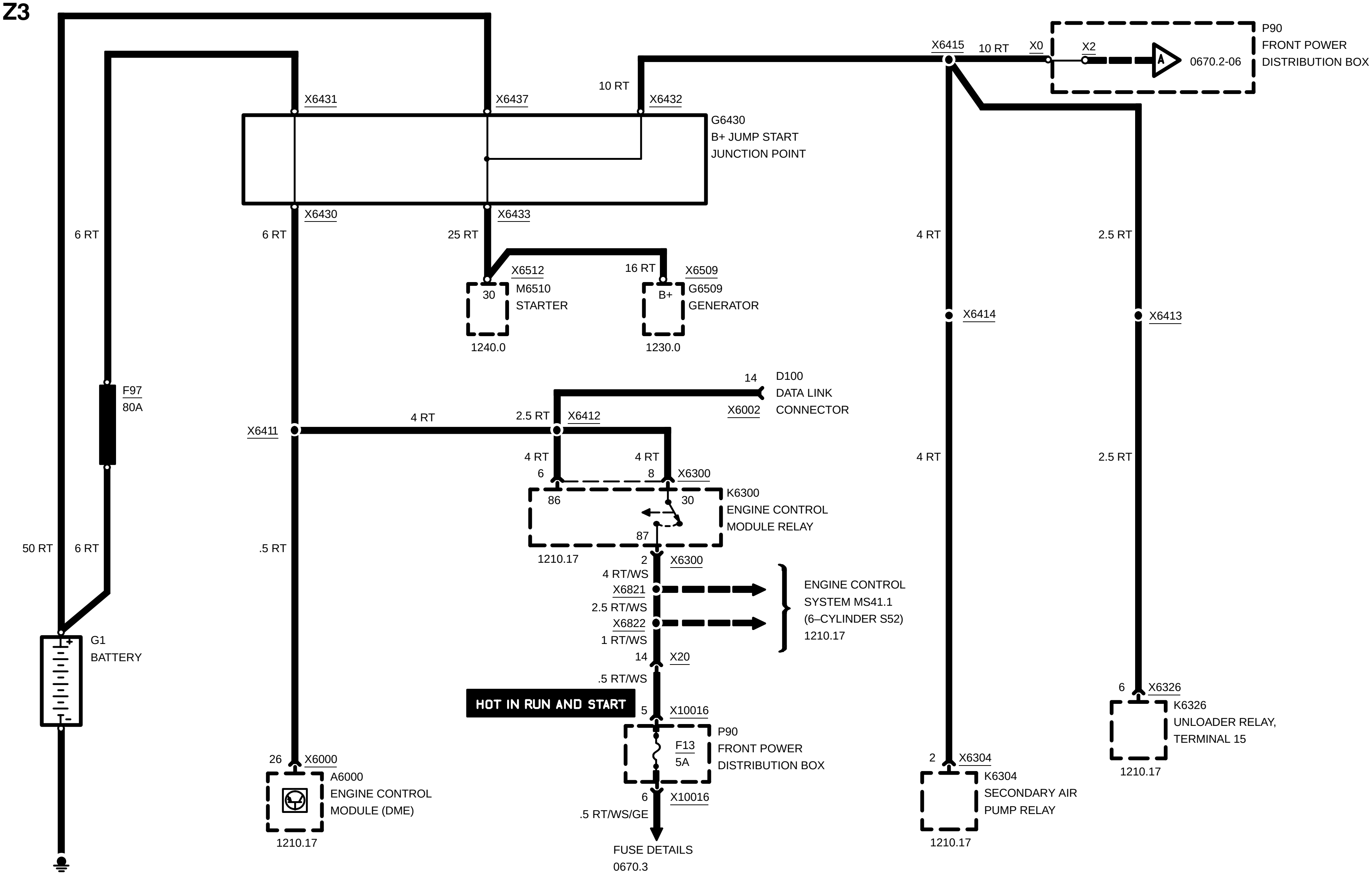


POWER DISTRIBUTION

Z3 VERSIONS

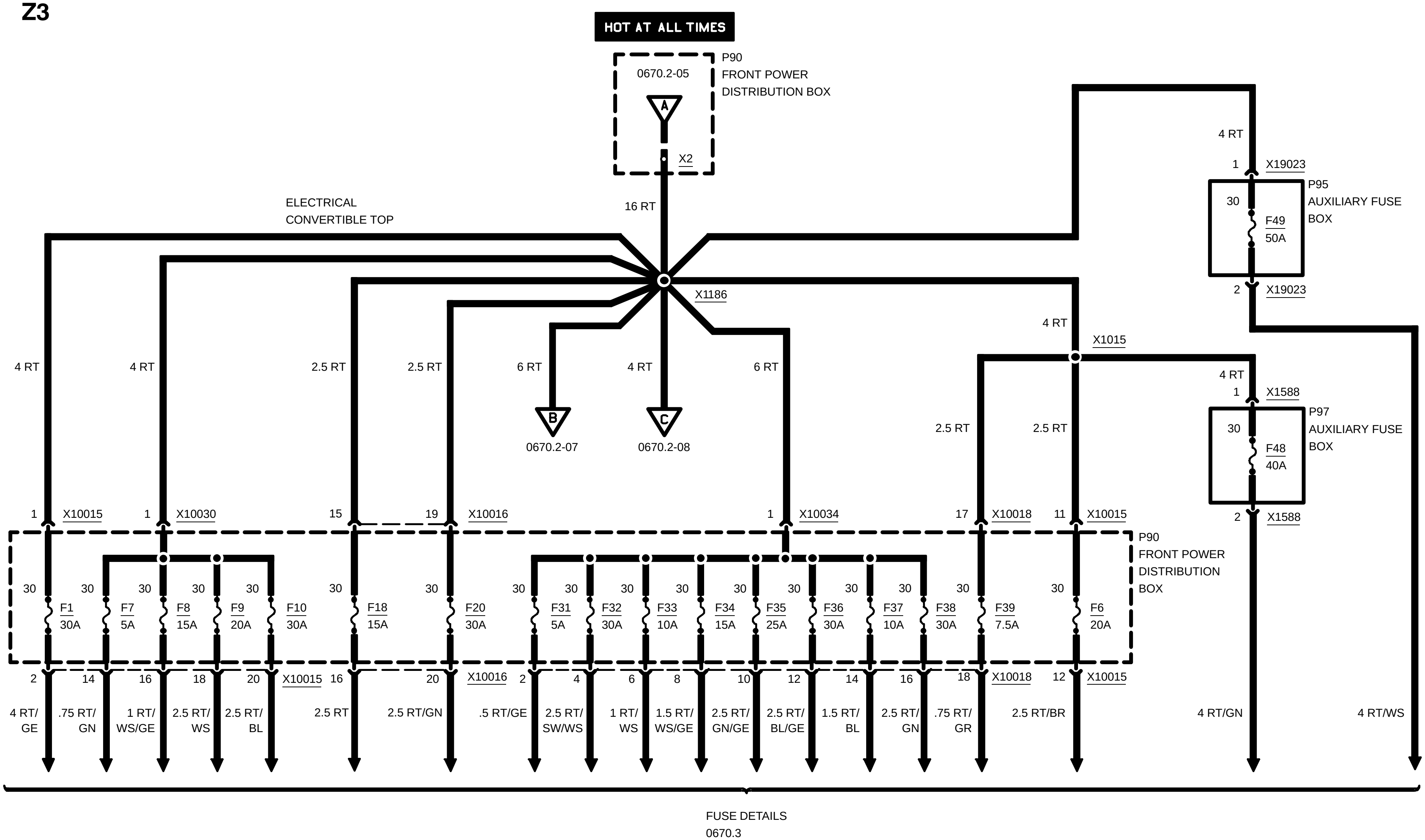



HOT AT ALL TIMES
G7512
B+ JUNCTION
POINT
F106
50A
X1981
4 RT
1
X33
4 RT
5
X209
30
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
15
15I
50
R
1
3
4
2
X209
2.5 GN
.5 GN/WS
2.5 SW/GE
2.5 VI
7
6
8
2
X33
2.5 GN
NOT USED
2.5 GN/SW
2.5 VI
8
X1805
A837
ELECTRONIC
IMMOBILIZER CONTROL
MODULE (EWS III)
1240.0
6135.1
X203
X223
1.5 GN
X1100
1.5 VI
X888
2.5 GN
2.5 GN
.5 GN
.5 GN
.5 VI
.5 VI
.75 VI
1.5 VI
1.5 VI
1.5 VI
7
X10015
1
X10026
15
X10017
11
X10016
21
23
25
27
29
31
X10018
P90
FRONT POWER
DISTRIBUTION BOX
F4 15A
F21 5A
F22 5A
F23 5A
F24 10A
F25 5A
F26 10A
F27 5A
F28 5A
F16 5A
F41 15A
F42 15A
F43 5A
F44 15A
F45 7.5A
F46 15A
8
X10015
2
4
6
8
10
12
14
16
X10017
12
X10016
22
24
26
28
30
32
X10018
1.5 GN/GE
.5 GN/BL/GE
.5 GN/GE
.5 GN/BL
.75 GN/SW
.5 GN/RT
1.5 GN/WS
.5 GN/VI
.5 GN/GR
.5 GN/BL
.5 VI/BL
.5 VI/GN
.75 VI/WS
1.5 VI/SW
1.5 VI/WS
1.5 VI/GE
FUSE DETAILS
0670.3


X6431
X6437
10 RT
X6432
X6415
10 RT
X0
X2
0670.2-06
P90
FRONT POWER
DISTRIBUTION BOX
G6430
B+ JUMP START
JUNCTION POINT
X6430
X6433
6 RT
6 RT
25 RT
4 RT
2.5 RT
X6512
16 RT
X6509
30
M6510
STARTER
B+
G6509
GENERATOR
1240.0
1230.0
X6414
X6413
F97
80A
14
D100
DATA LINK
CONNECTOR
X6002
X6411
4 RT
2.5 RT
X6412
4 RT
4 RT
4 RT
2.5 RT
6
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
87
50 RT
6 RT
.5 RT
1210.17
2
X6300
4 RT/WS
X6821
2.5 RT/WS
X6822
1 RT/WS
ENGINE CONTROL
SYSTEM MS41.1
(6–CYLINDER S52)
1210.17
14
X20
.5 RT/WS
G1
BATTERY
HOT IN RUN AND START
5
X10016
6
X6326
K6326
UNLOADER RELAY,
TERMINAL 15
F13
5A
P90
FRONT POWER
DISTRIBUTION BOX
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
2
X6304
K6304
SECONDARY AIR
PUMP RELAY
1210.17
6
X10016
.5 RT/WS/GE
1210.17
1210.17
FUSE DETAILS
0670.3

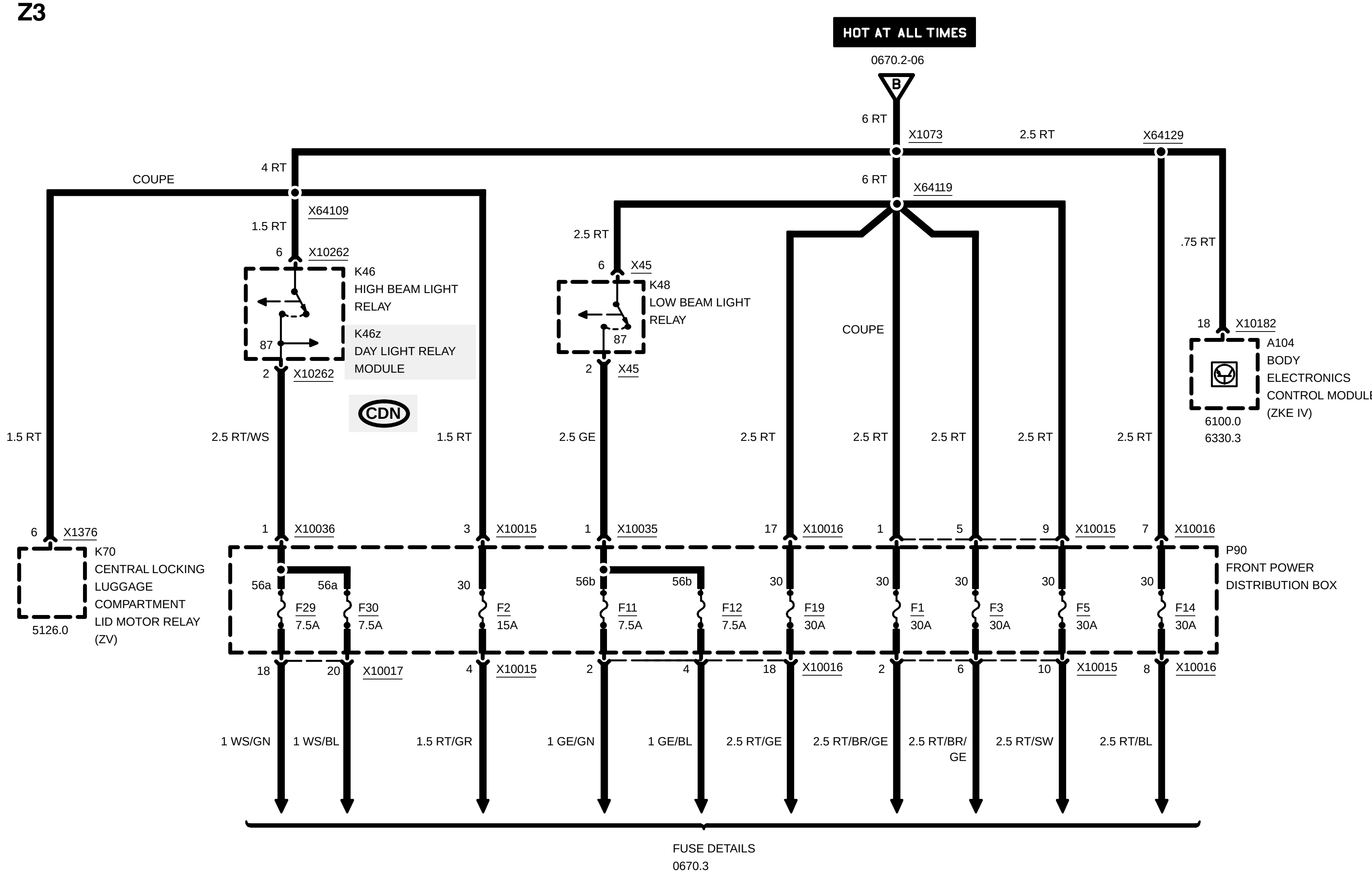
POWER DISTRIBUTION

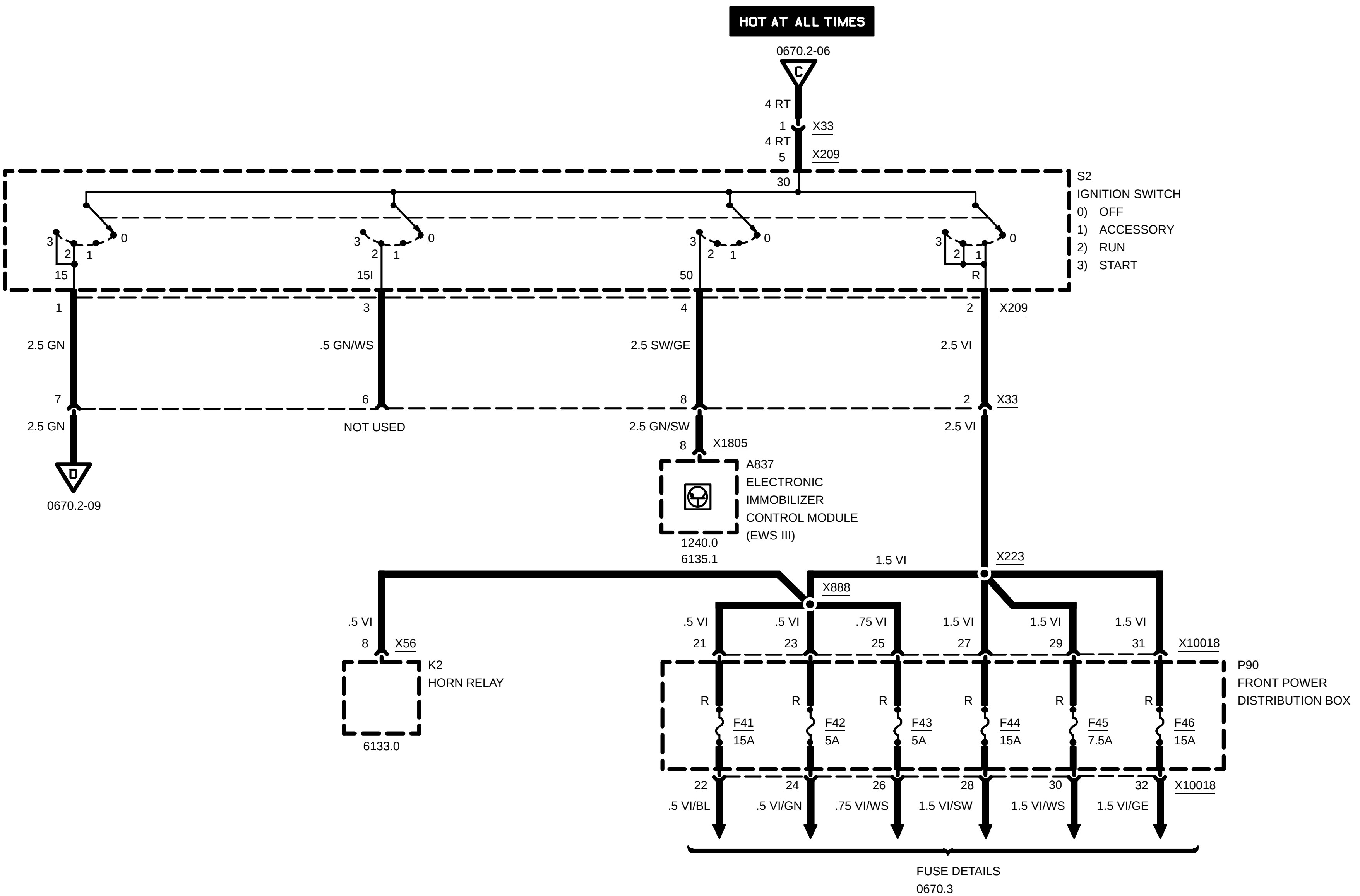
M VERSIONS



POWER DISTRIBUTION

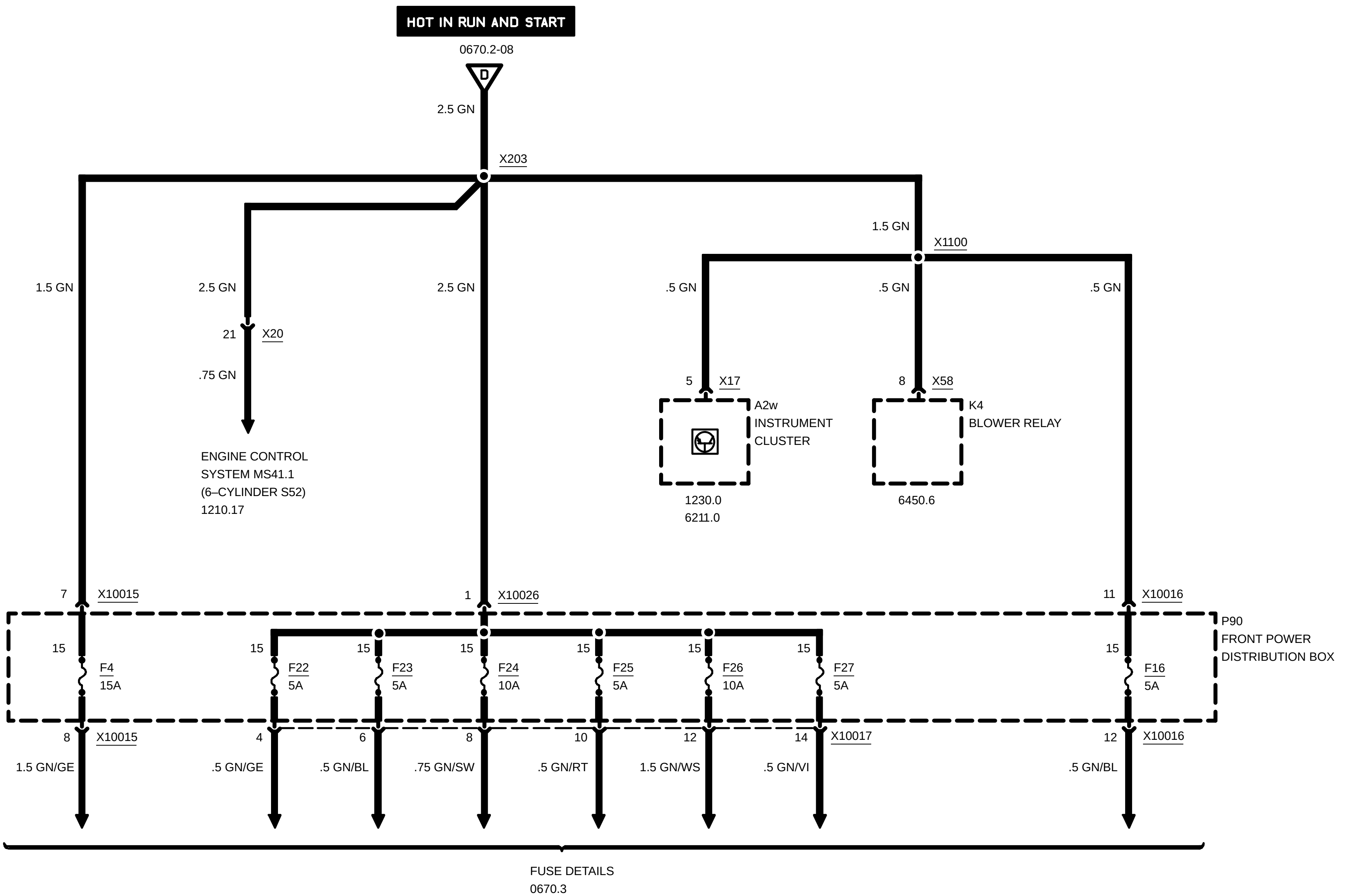
M VERSIONS




HOT AT ALL TIMES
0670.2-06
C
4 RT
1 X33
4 RT
5 X209
30
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
15
15I
50
R
1
3
4
2 X209
2.5 GN
.5 GN/WS
2.5 SW/GE
2.5 VI
7
6
8
2 X33
2.5 GN
NOT USED
2.5 GN/SW
2.5 VI
8 X1805
A837
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS III)
1240.0
6135.1
D
0670.2-09
1.5 VI
X223
X888
.5 VI
8 X56
K2
HORN RELAY
6133.0
.5 VI
.5 VI
.75 VI
1.5 VI
1.5 VI
1.5 VI
21
23
25
27
29
31
X10018
P90
FRONT POWER
DISTRIBUTION BOX
R
F41 15A
F42 5A
F43 5A
F44 15A
F45 7.5A
F46 15A
22
24
26
28
30
32
X10018
.5 VI/BL
.5 VI/GN
.75 VI/WS
1.5 VI/SW
1.5 VI/WS
1.5 VI/GE
FUSE DETAILS
0670.3

POWER DISTRIBUTION

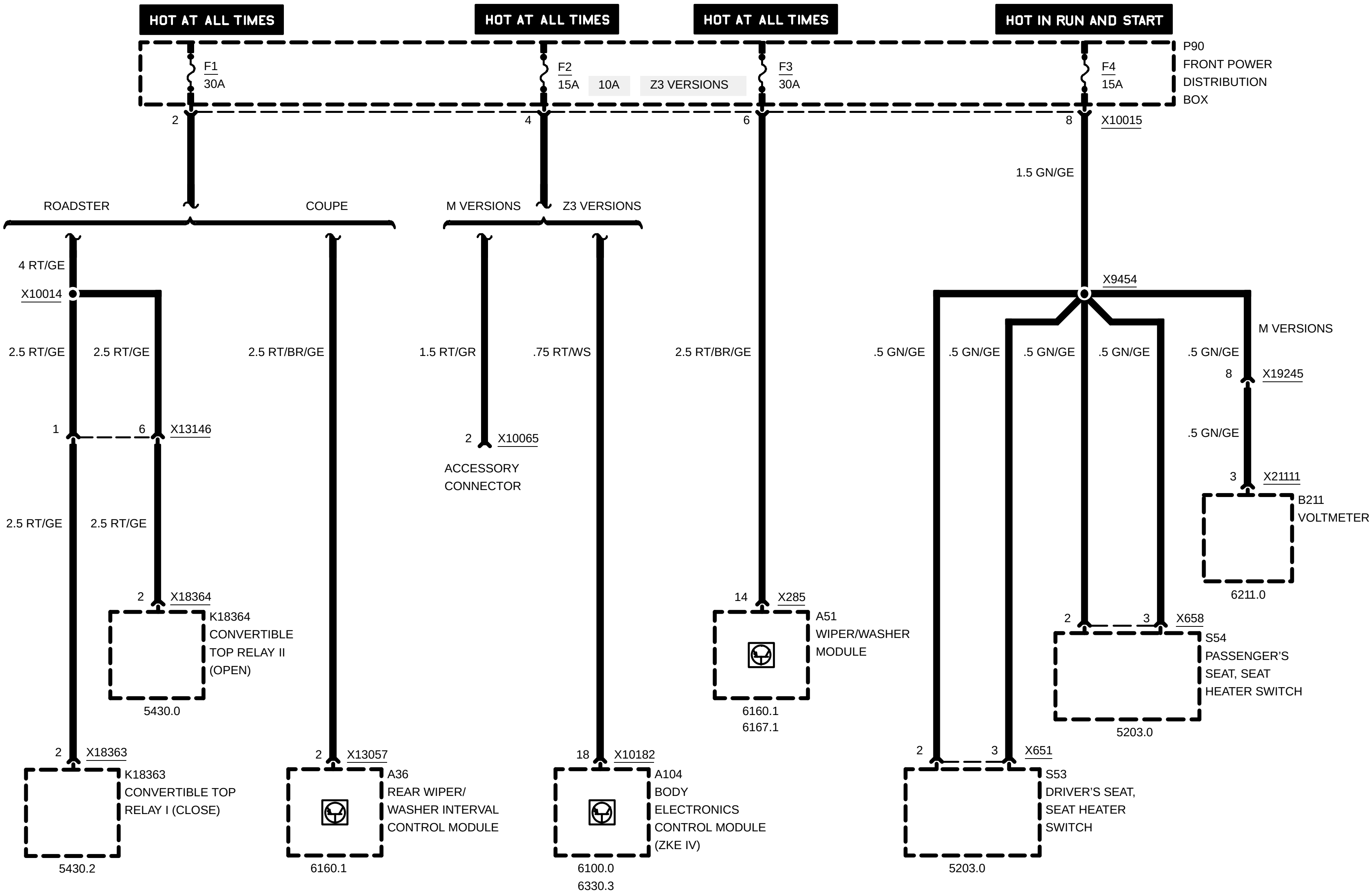
M VERSIONS



BMW 3 Z3

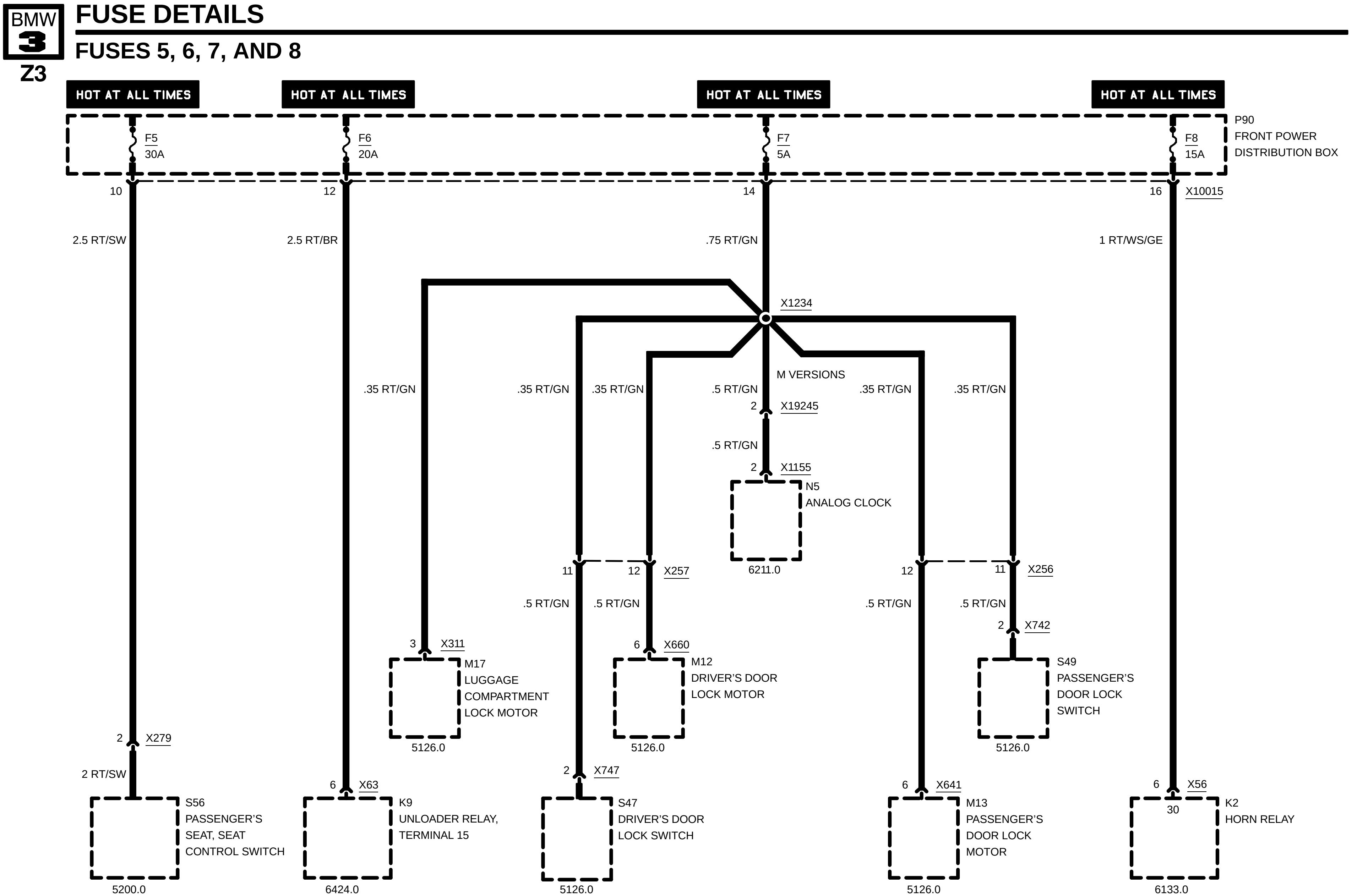
0670.3 FUSE DETAILS

FUSES 1, 2, 3, AND 4



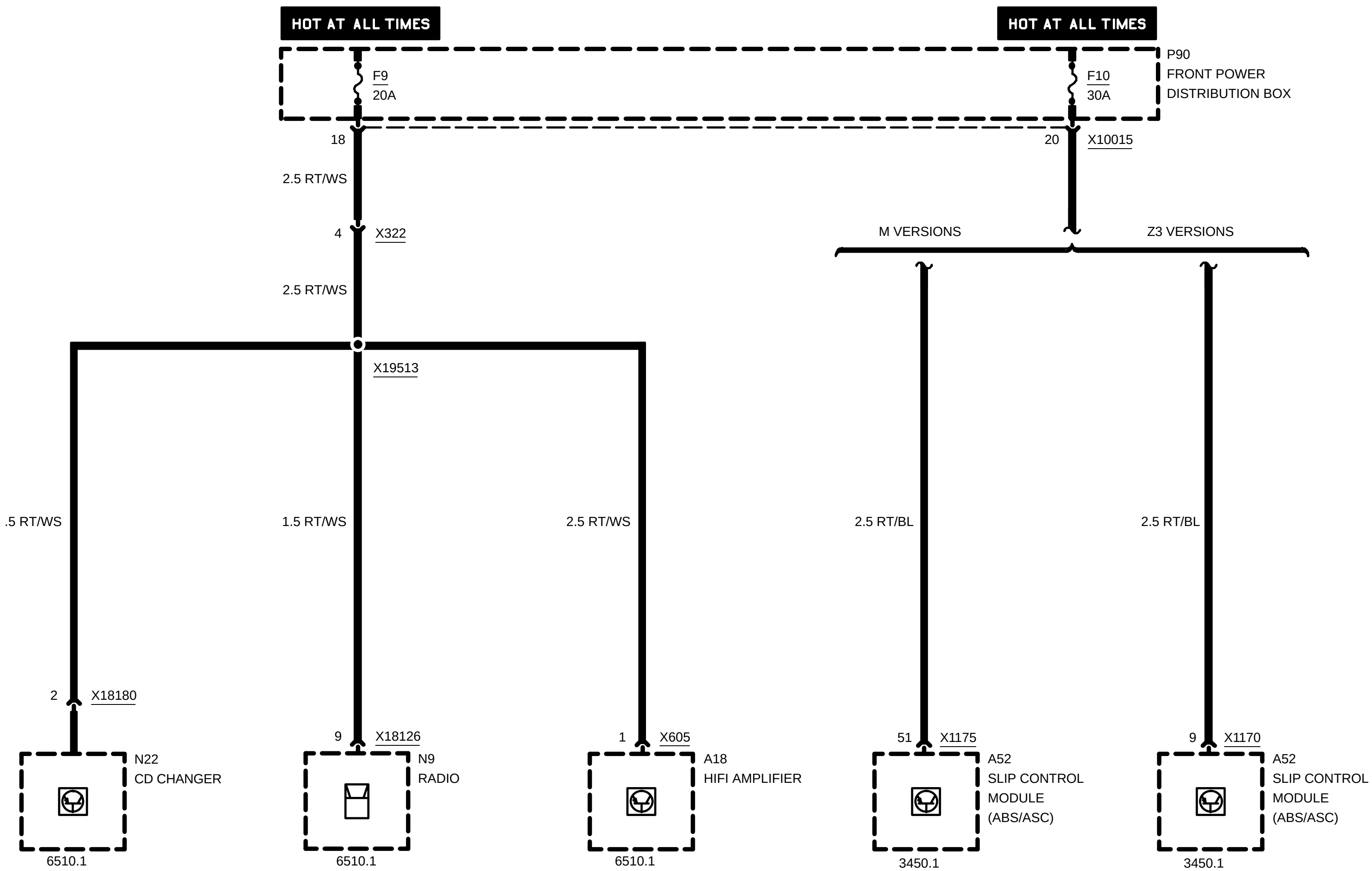
FUSE DETAILS

FUSES 5, 6, 7, AND 8



FUSE DETAILS

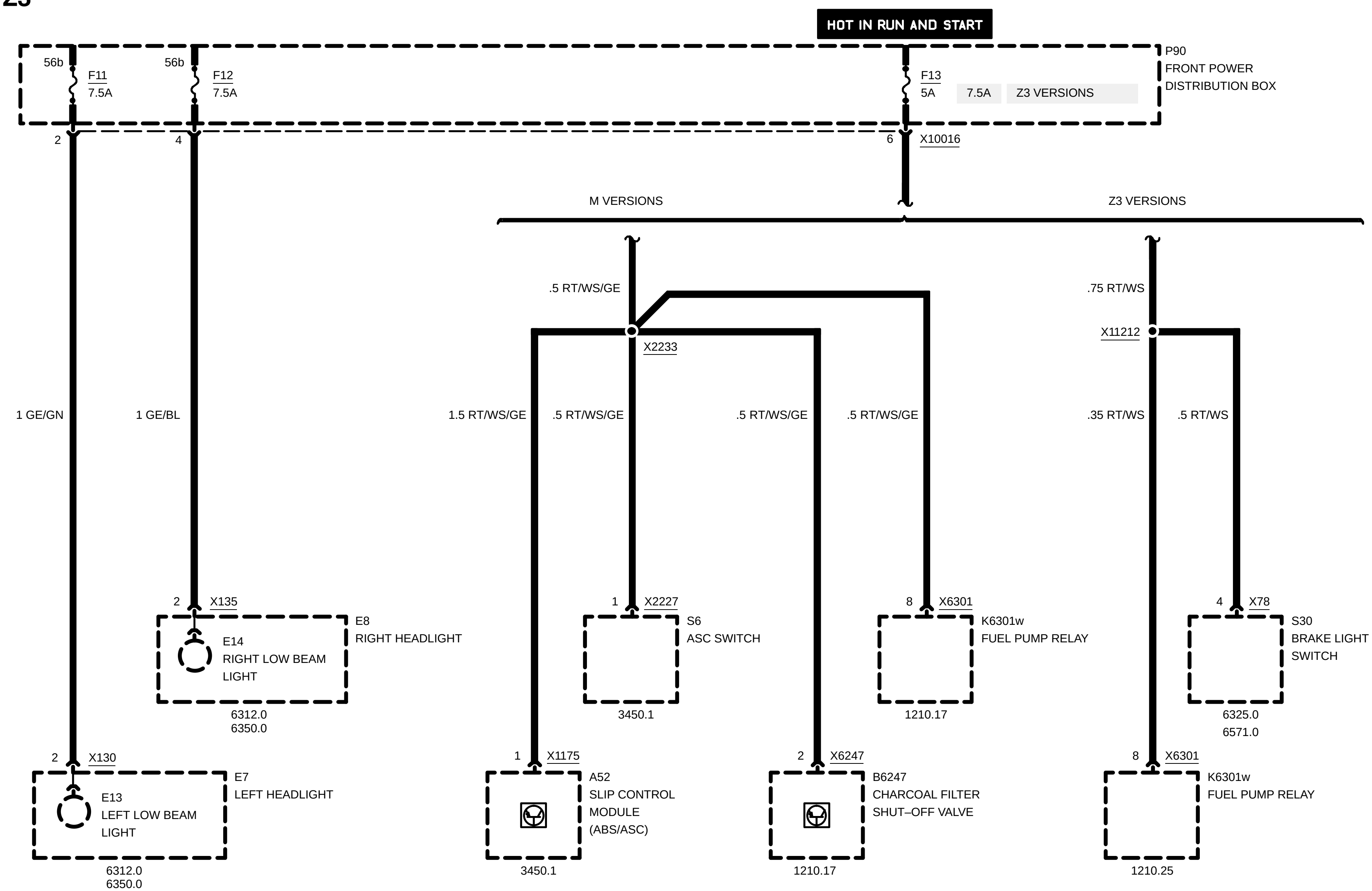
FUSES 9 AND 10



BMW 3 Z3

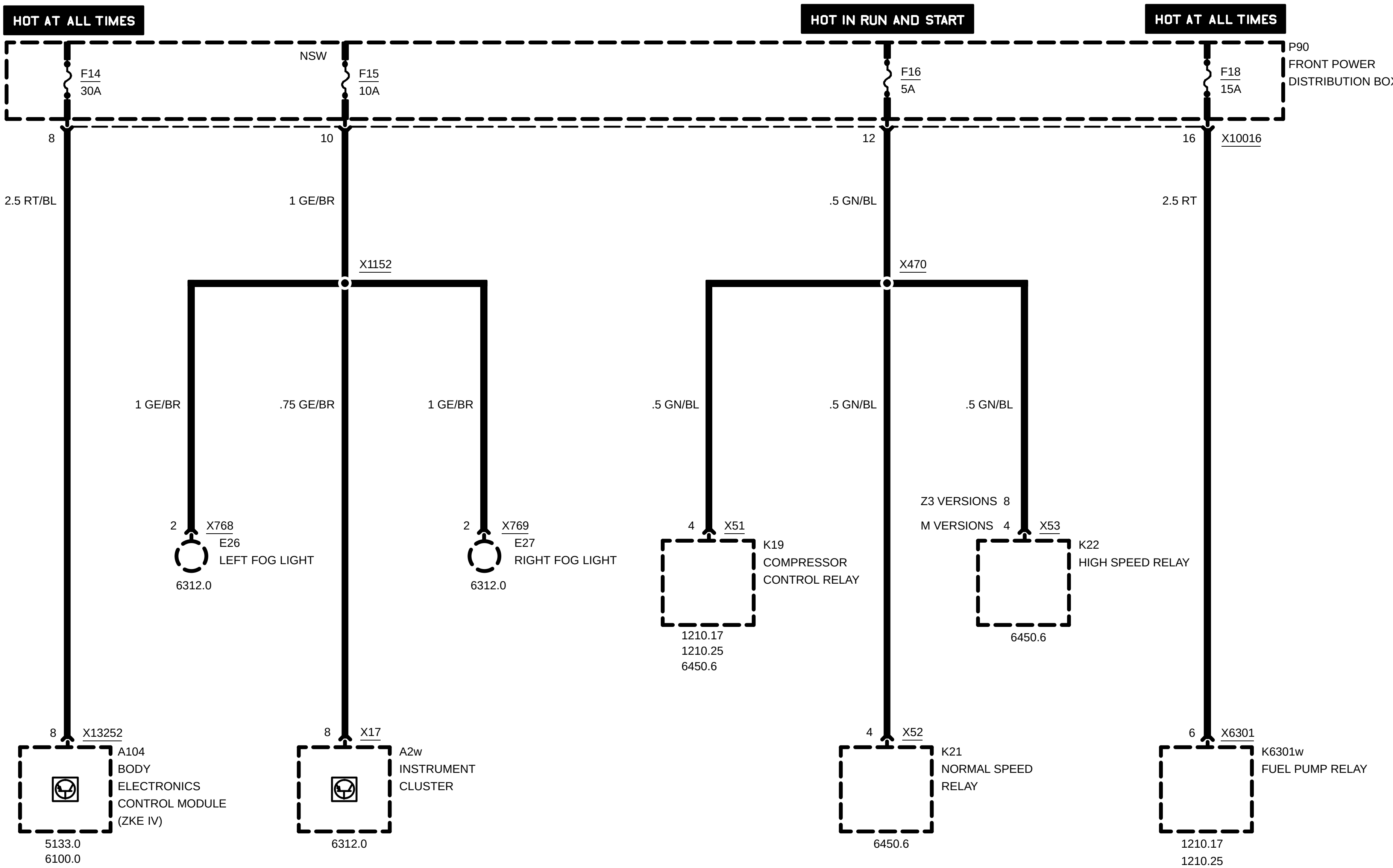
FUSE DETAILS

FUSES 11, 12, AND 13



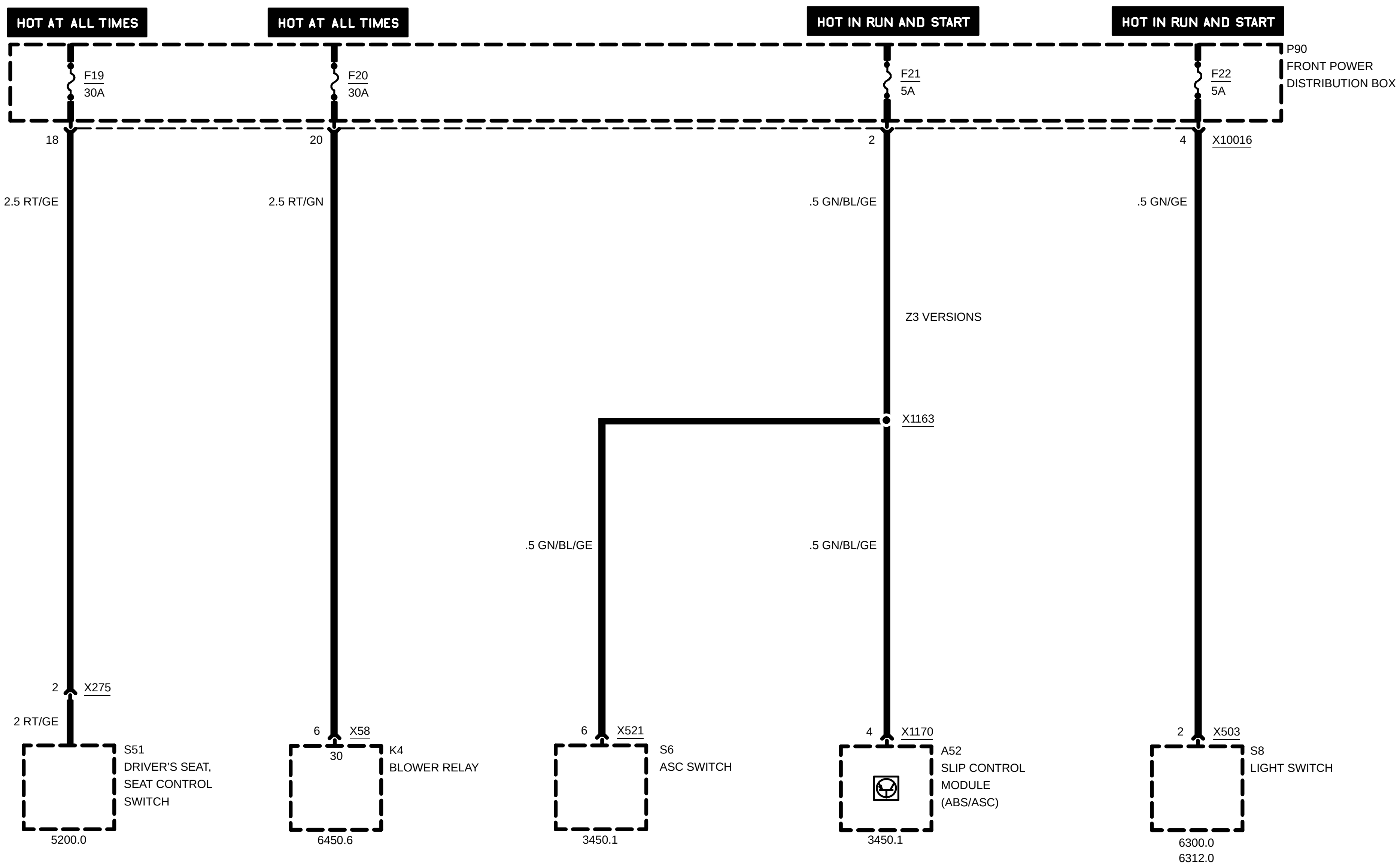
FUSE DETAILS

FUSES 14, 15, 16, AND 18



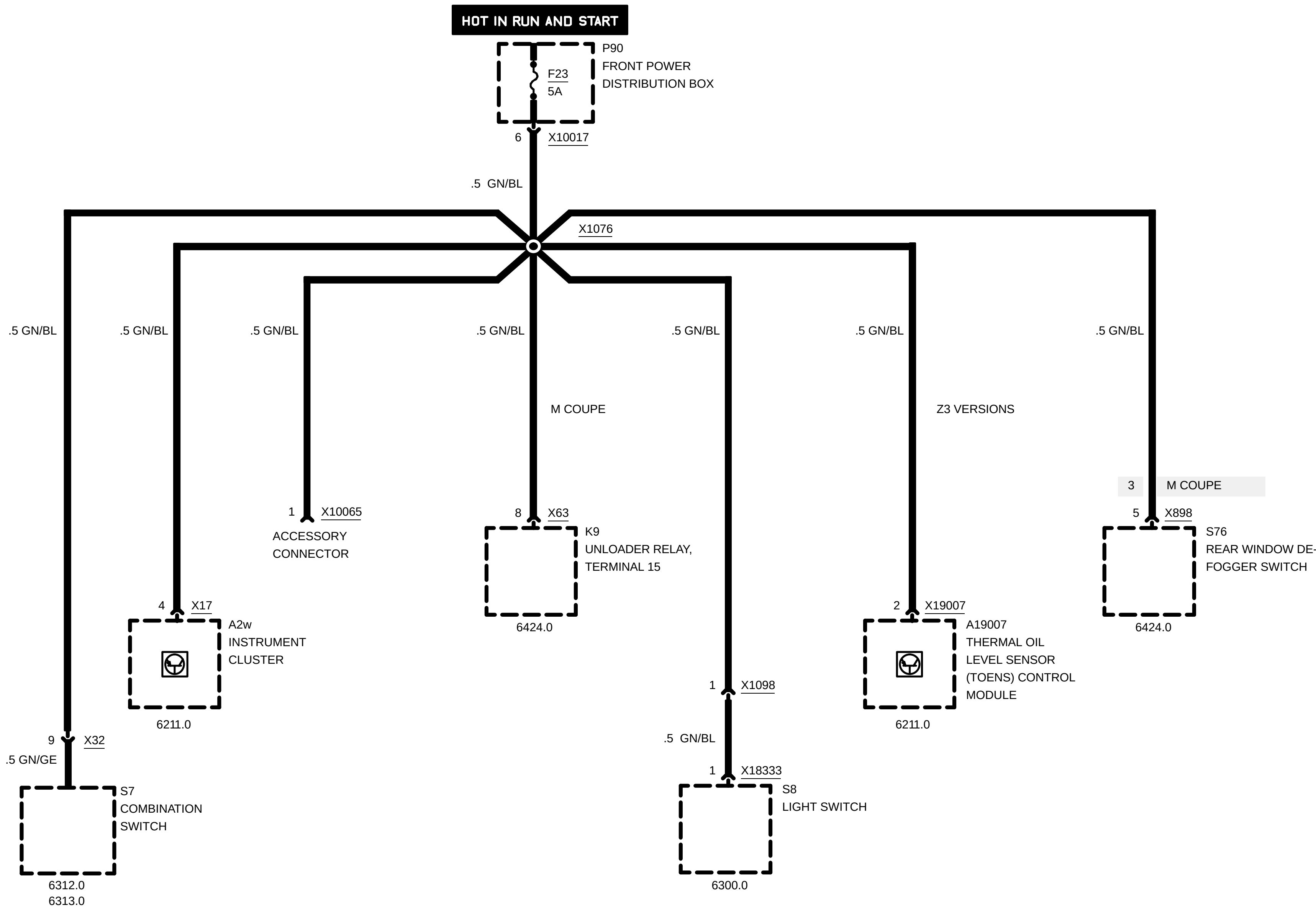
FUSE DETAILS

FUSES 19, 20, 21, AND 22



FUSE DETAILS

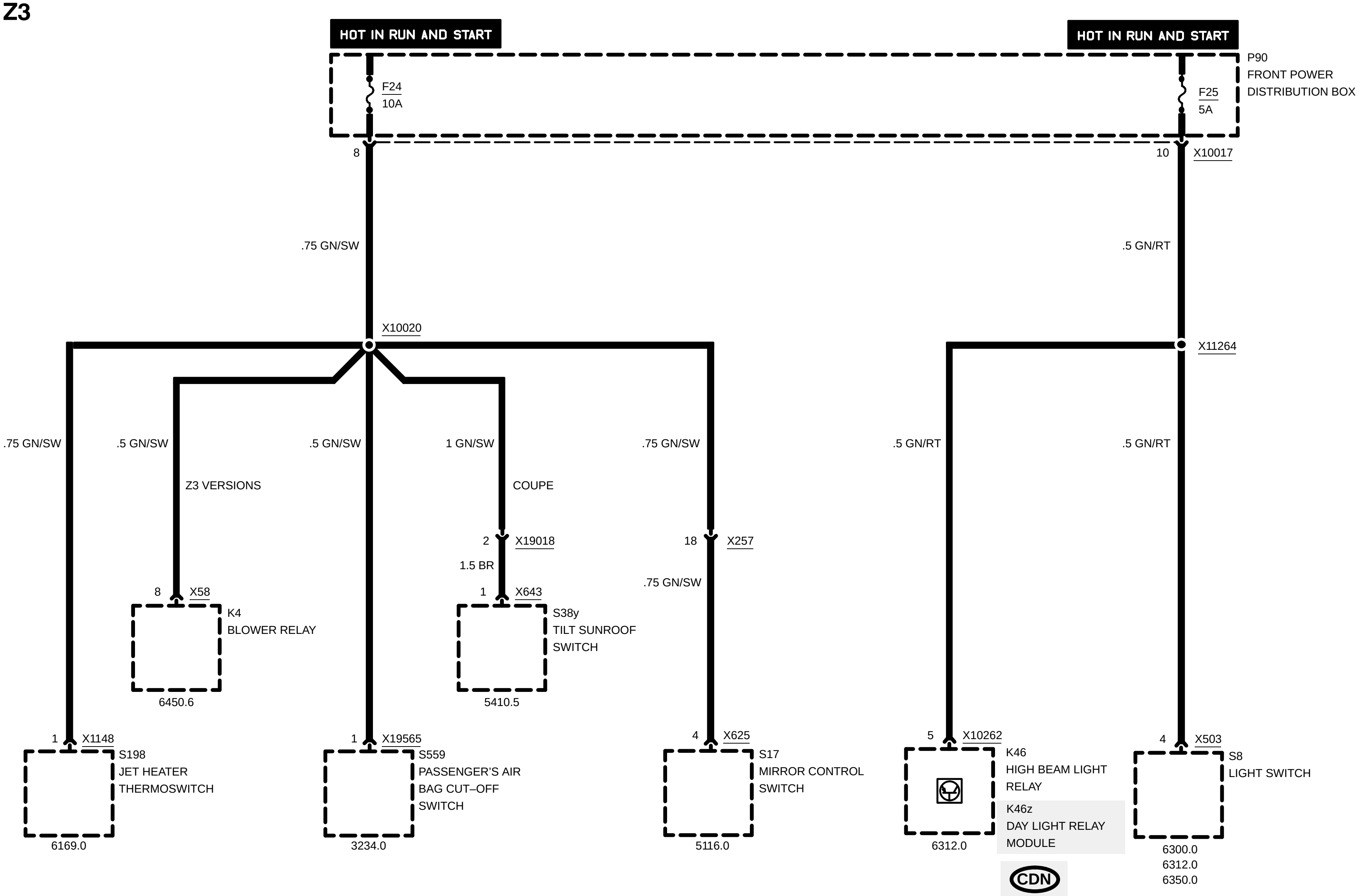
FUSE 23



BMW 3 Z3

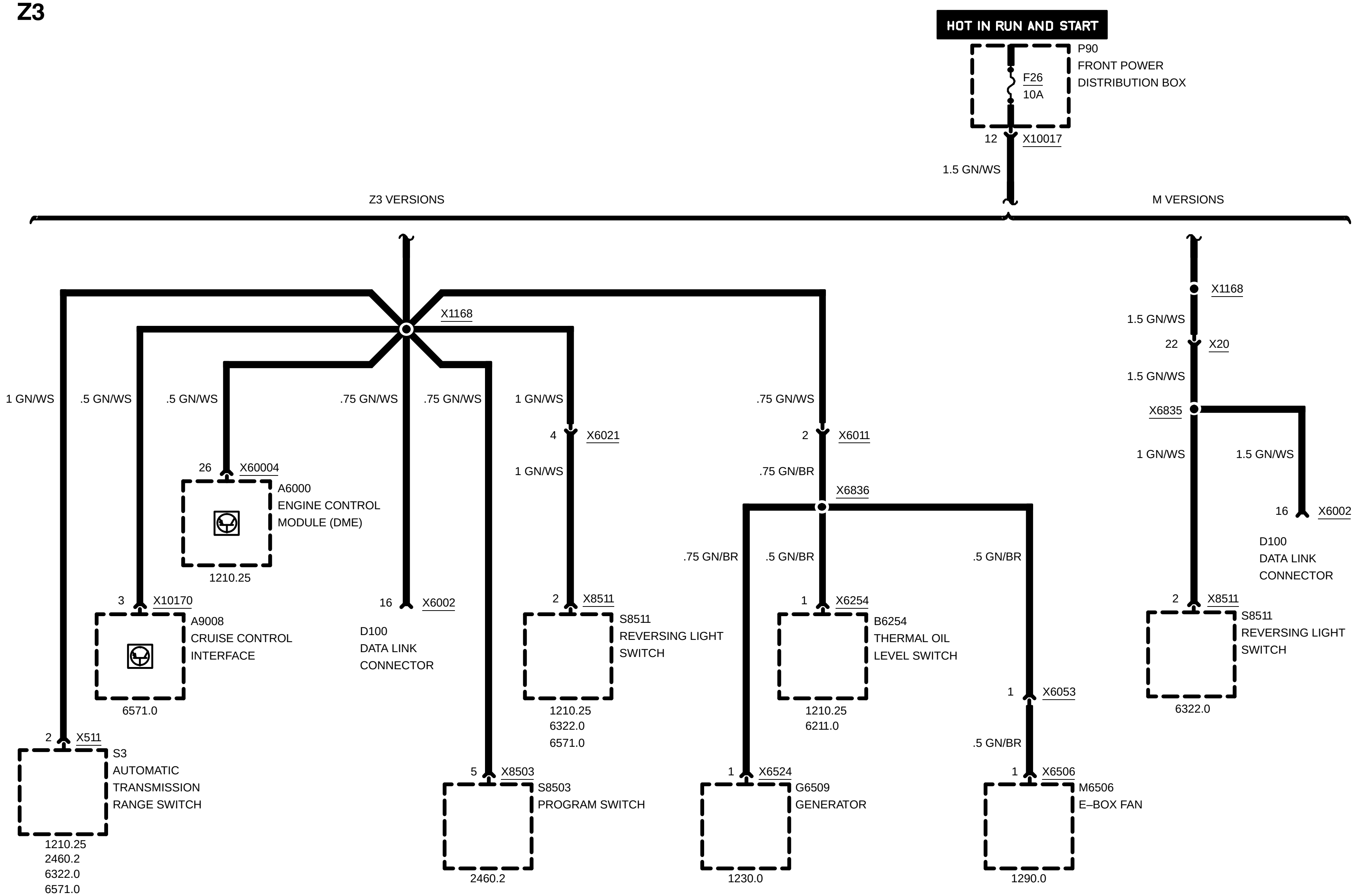
FUSE DETAILS

FUSES 24 AND 25



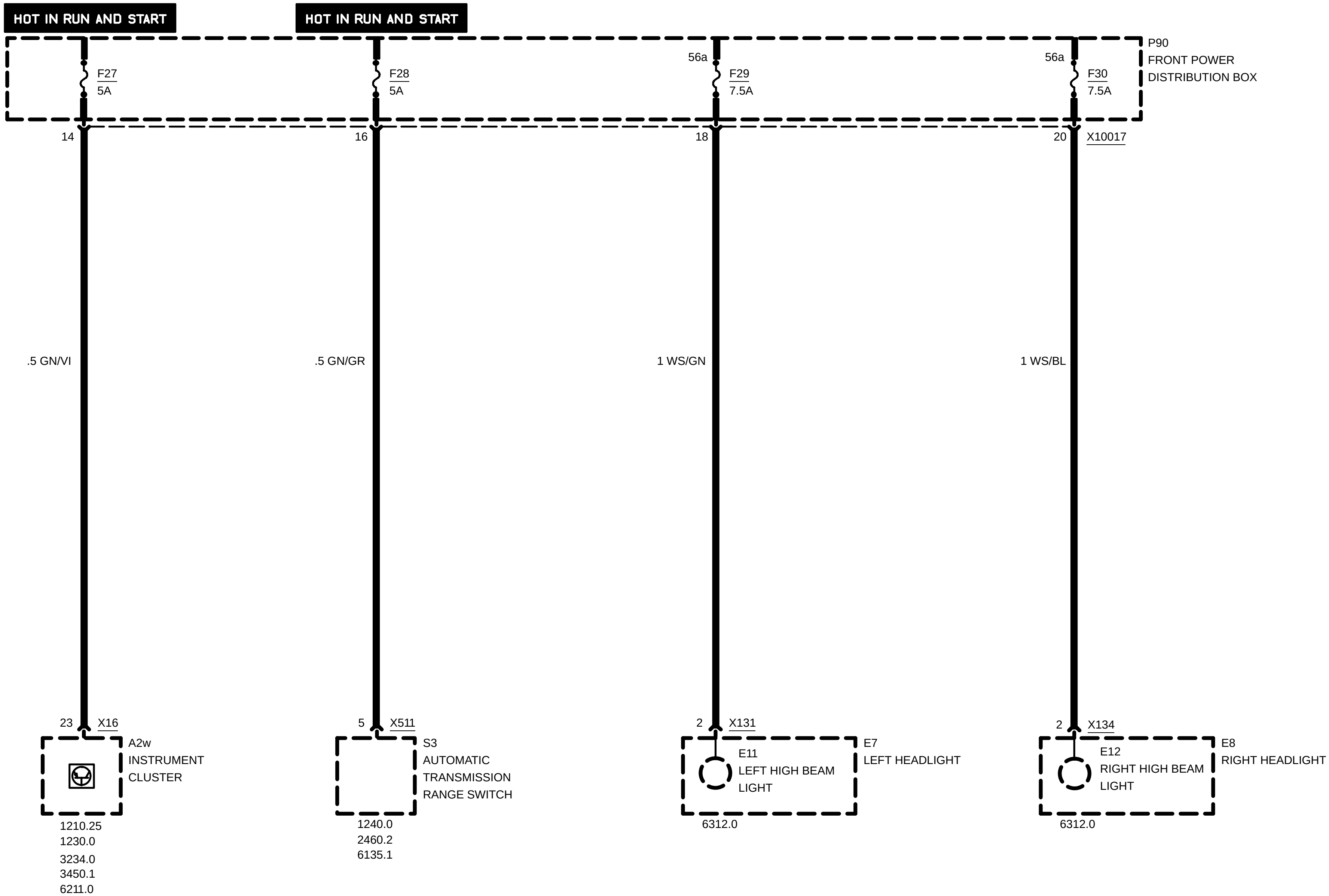
FUSE DETAILS

FUSE 26



FUSE DETAILS

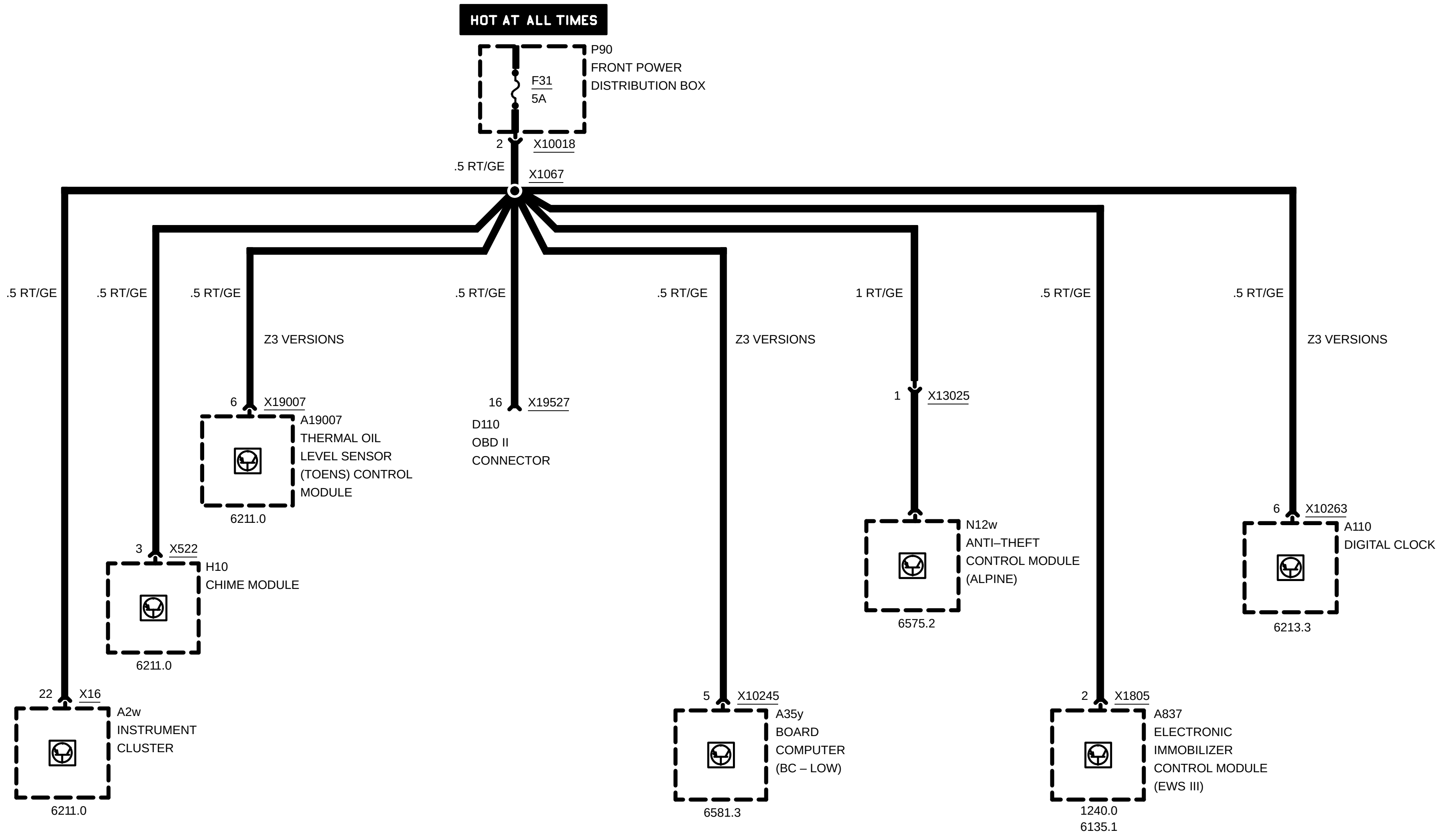
FUSES 27, 28, 29, AND 30



Z3

FUSE DETAILS

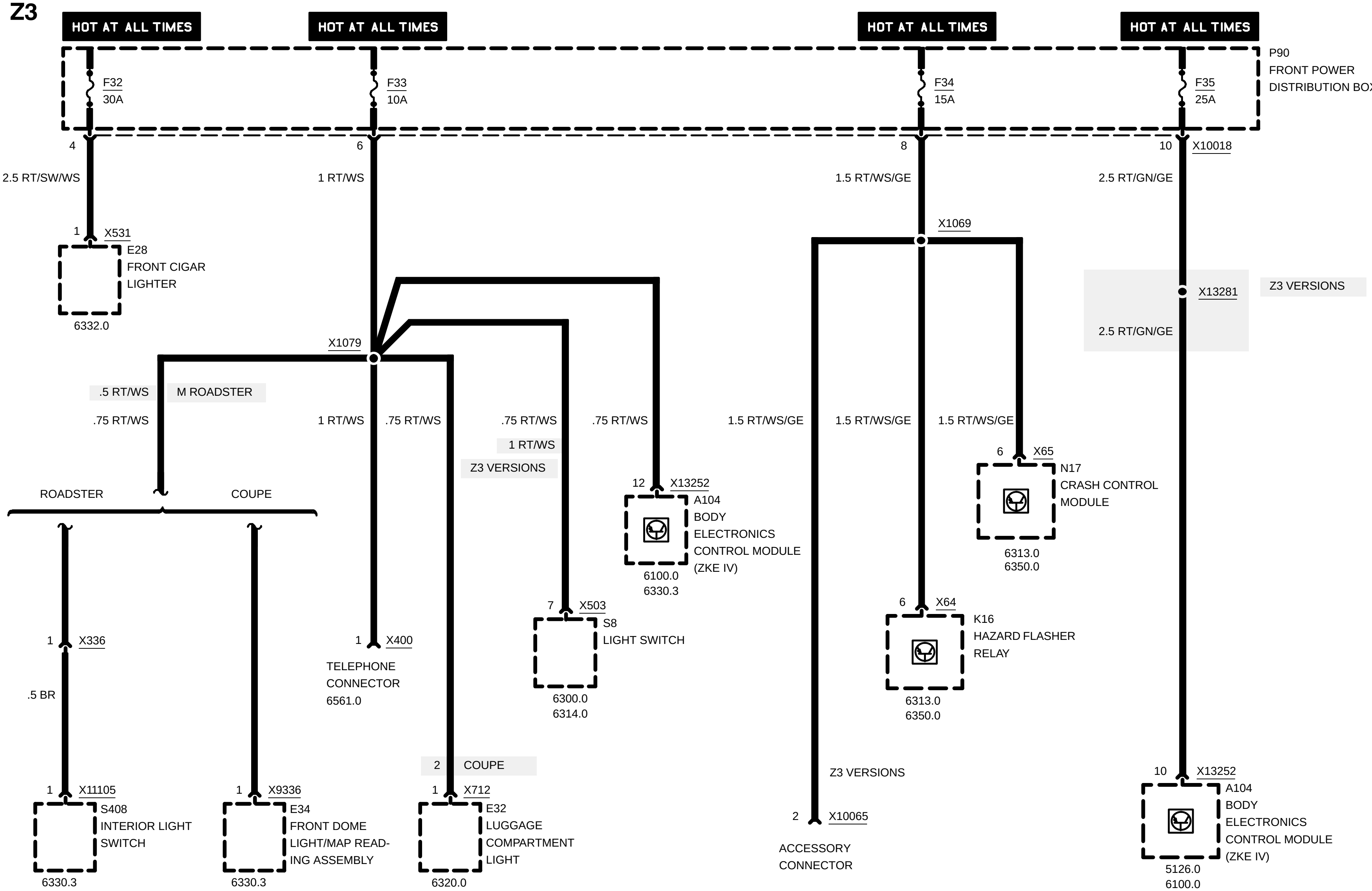
FUSE 31



BMW 3
Z3

FUSE DETAILS

FUSES 32, 33, 34, AND 35



03/00

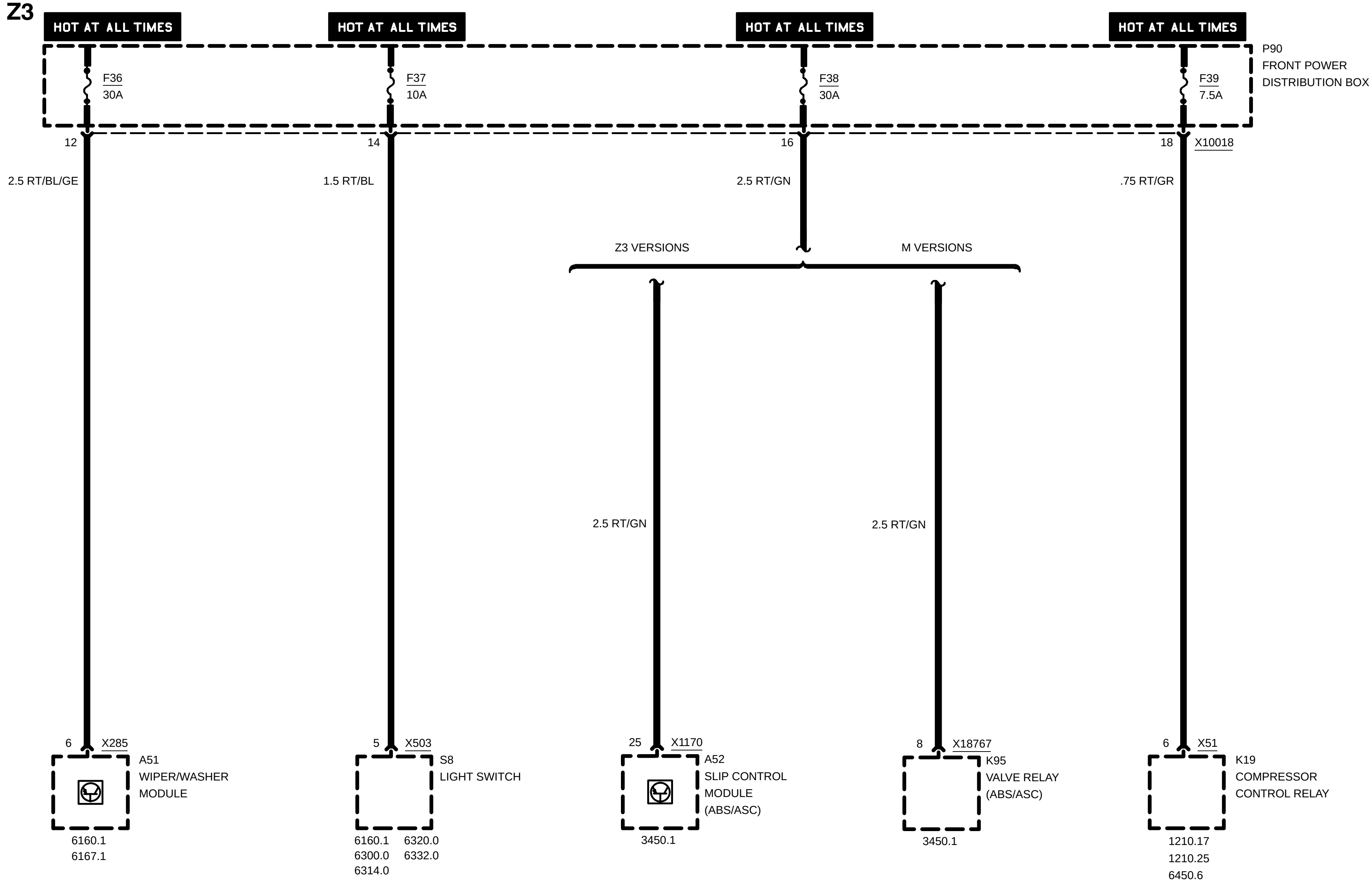
0670.3-11

1999

FUSE DETAILS

FUSES 36, 37, 38, AND 39

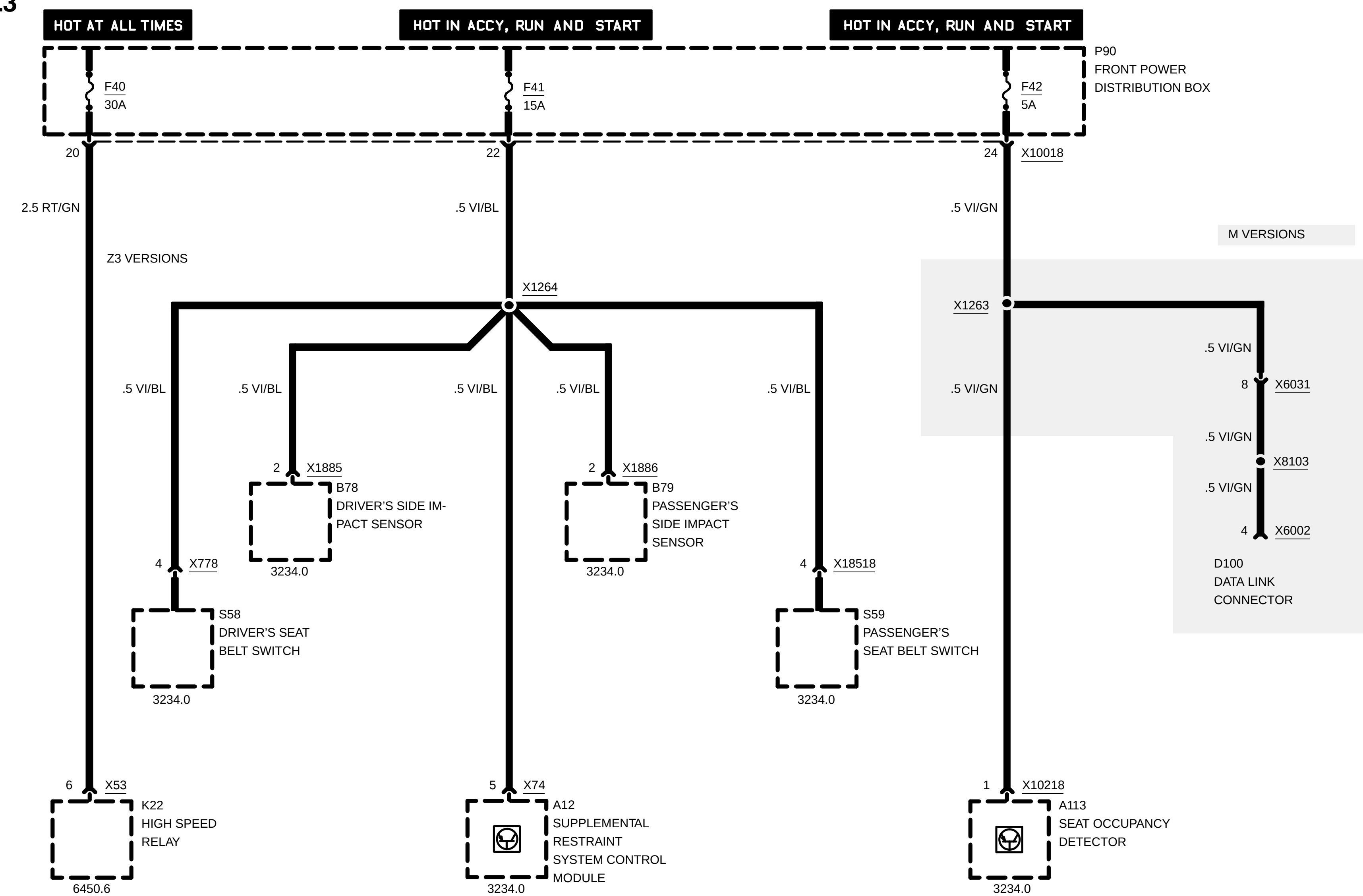
Z3



BMW 3 Z3

FUSE DETAILS

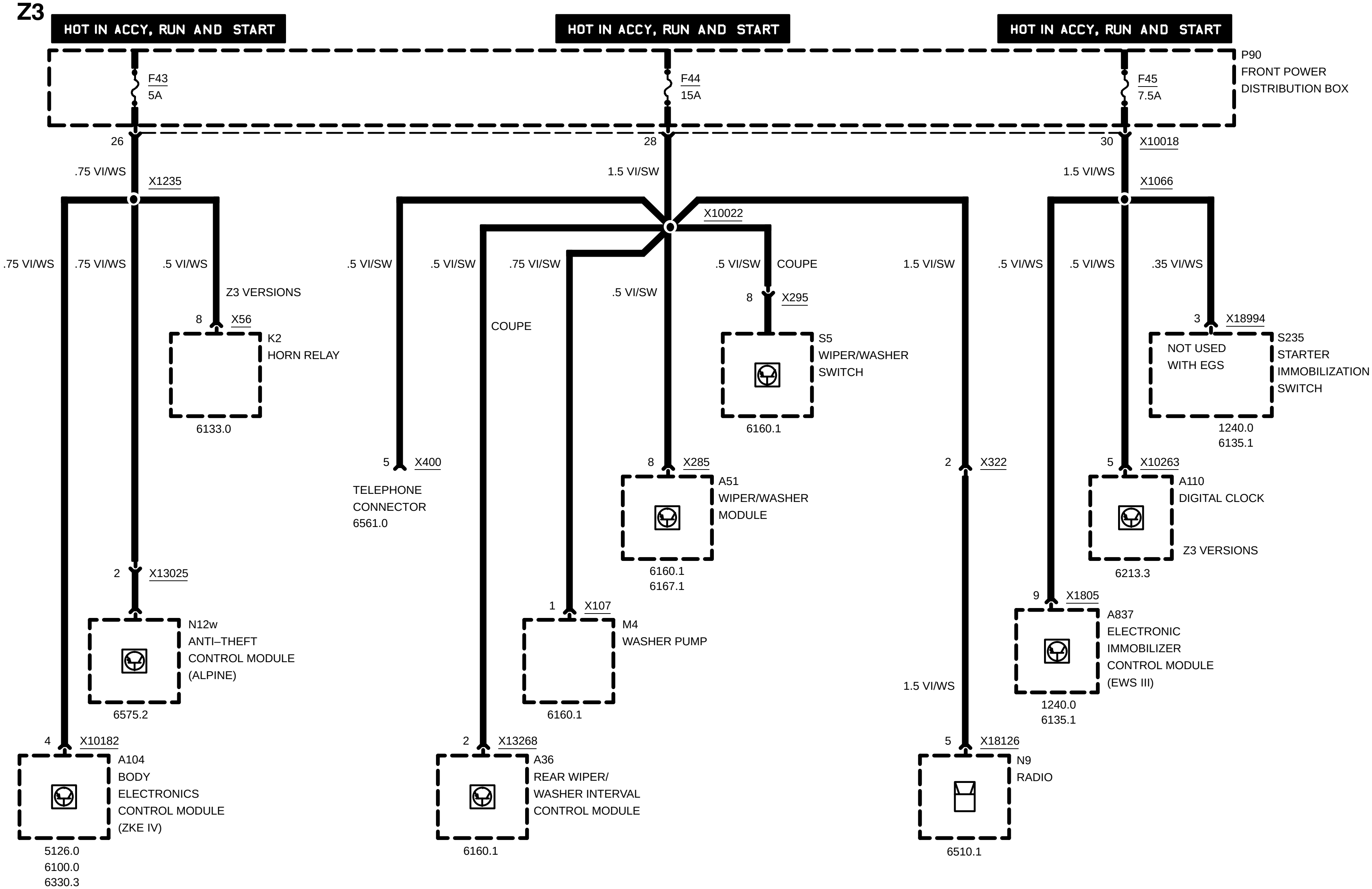
FUSES 40, 41, AND 42



BMW 3 Z3

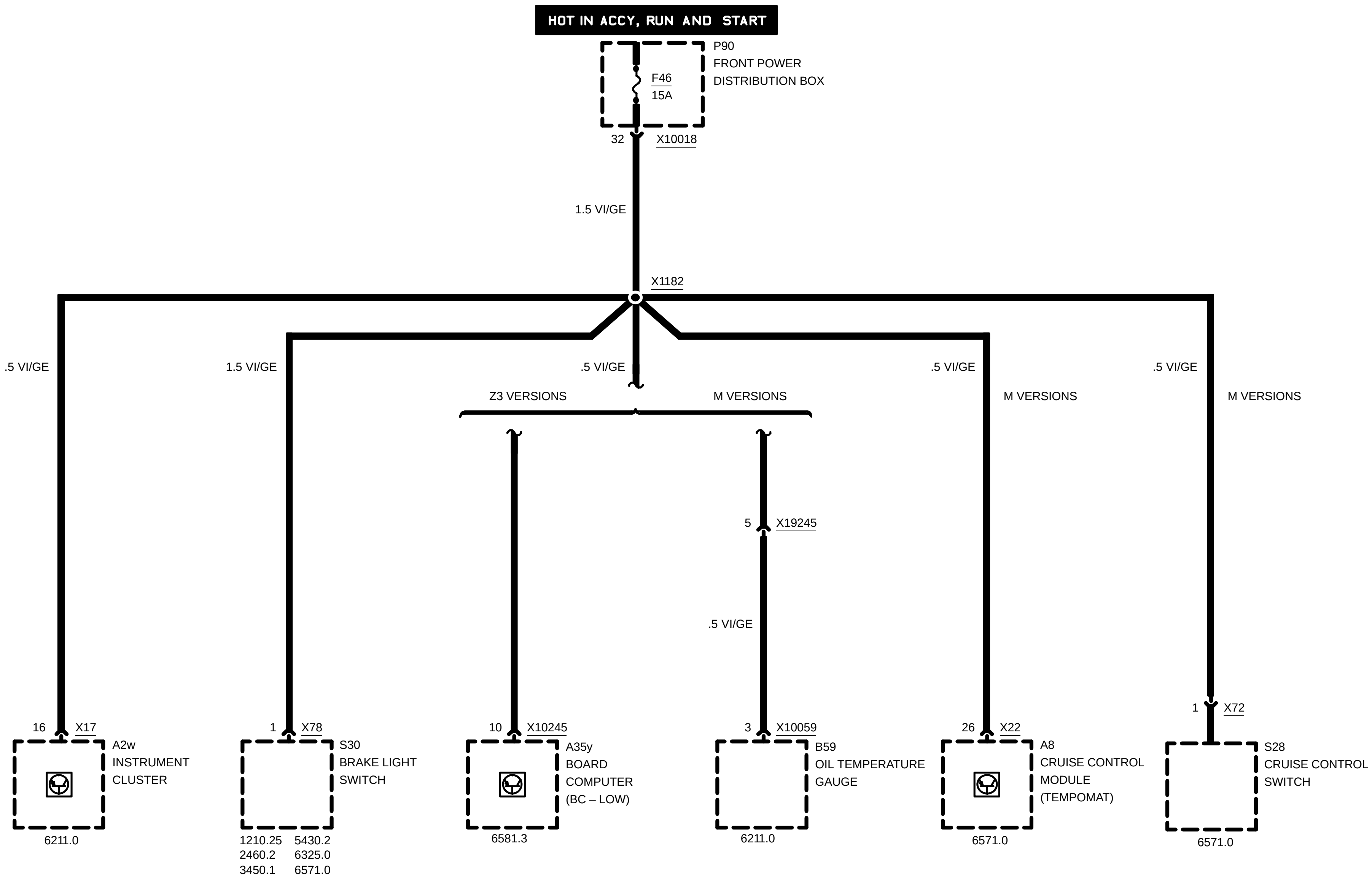
FUSE DETAILS

FUSES 43, 44, AND 45



FUSE DETAILS

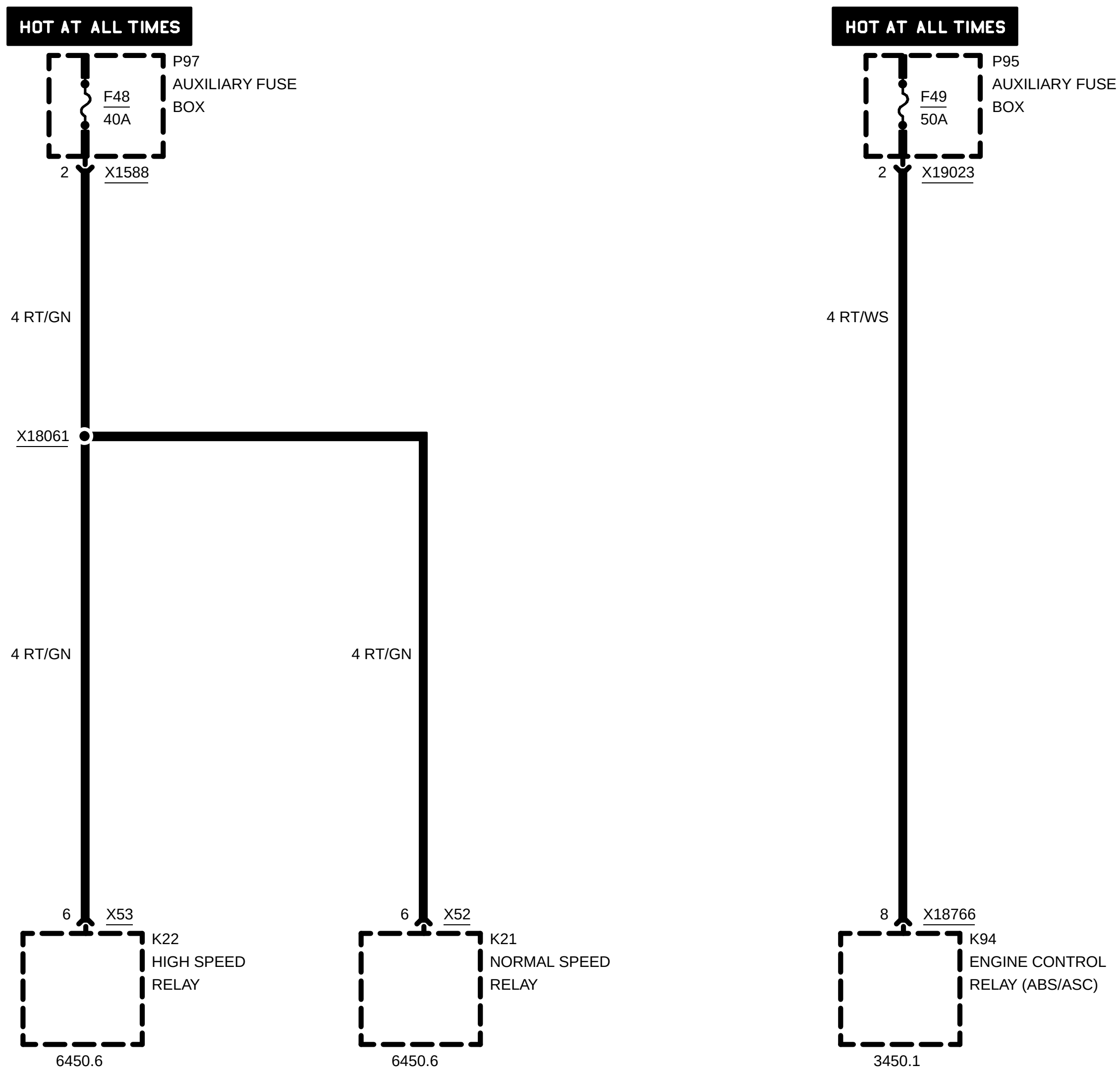
FUSE 46



FUSE DETAILS

M VERSIONS

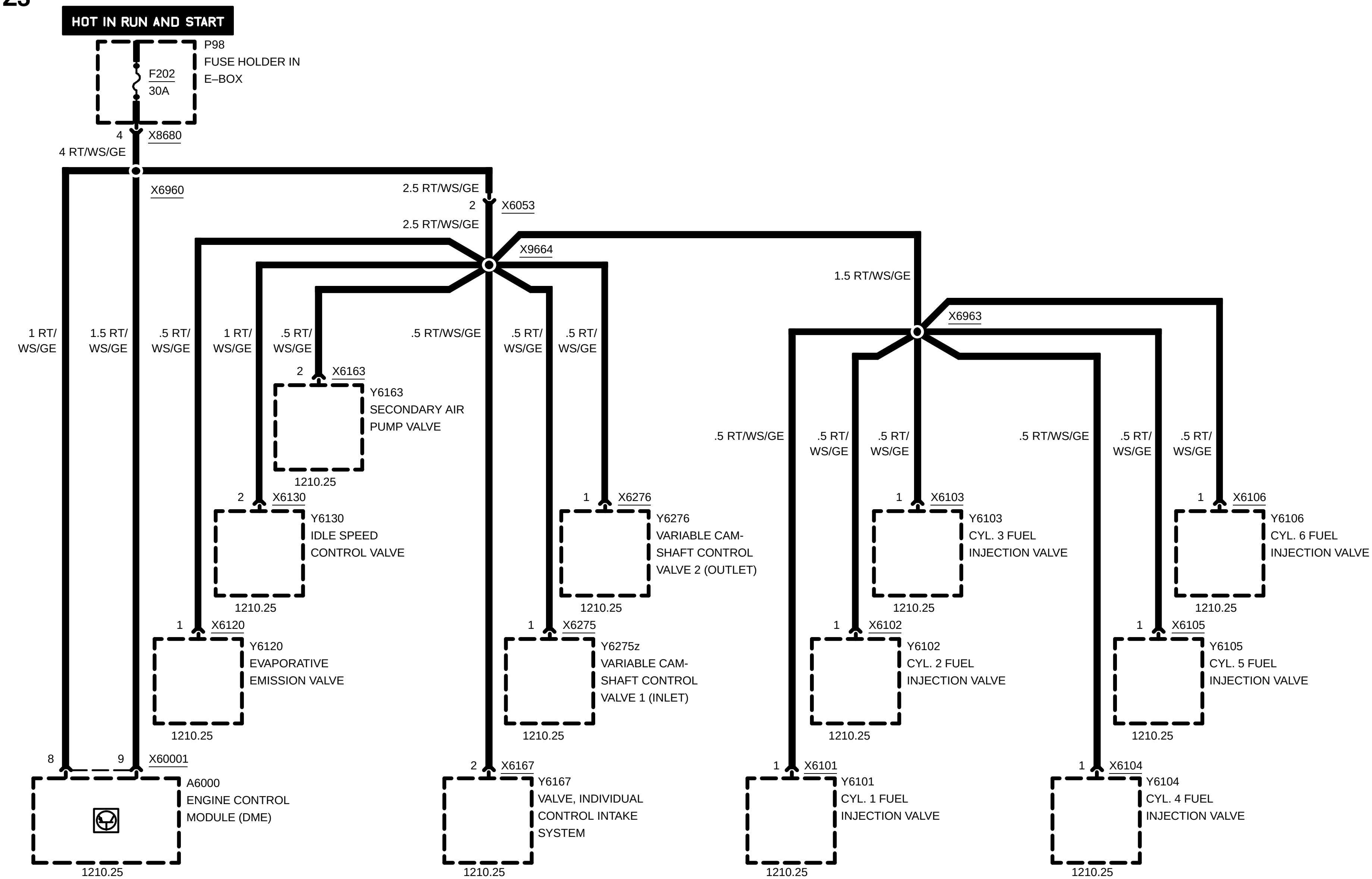
FUSES 48 AND 49



BMW 3 Z3

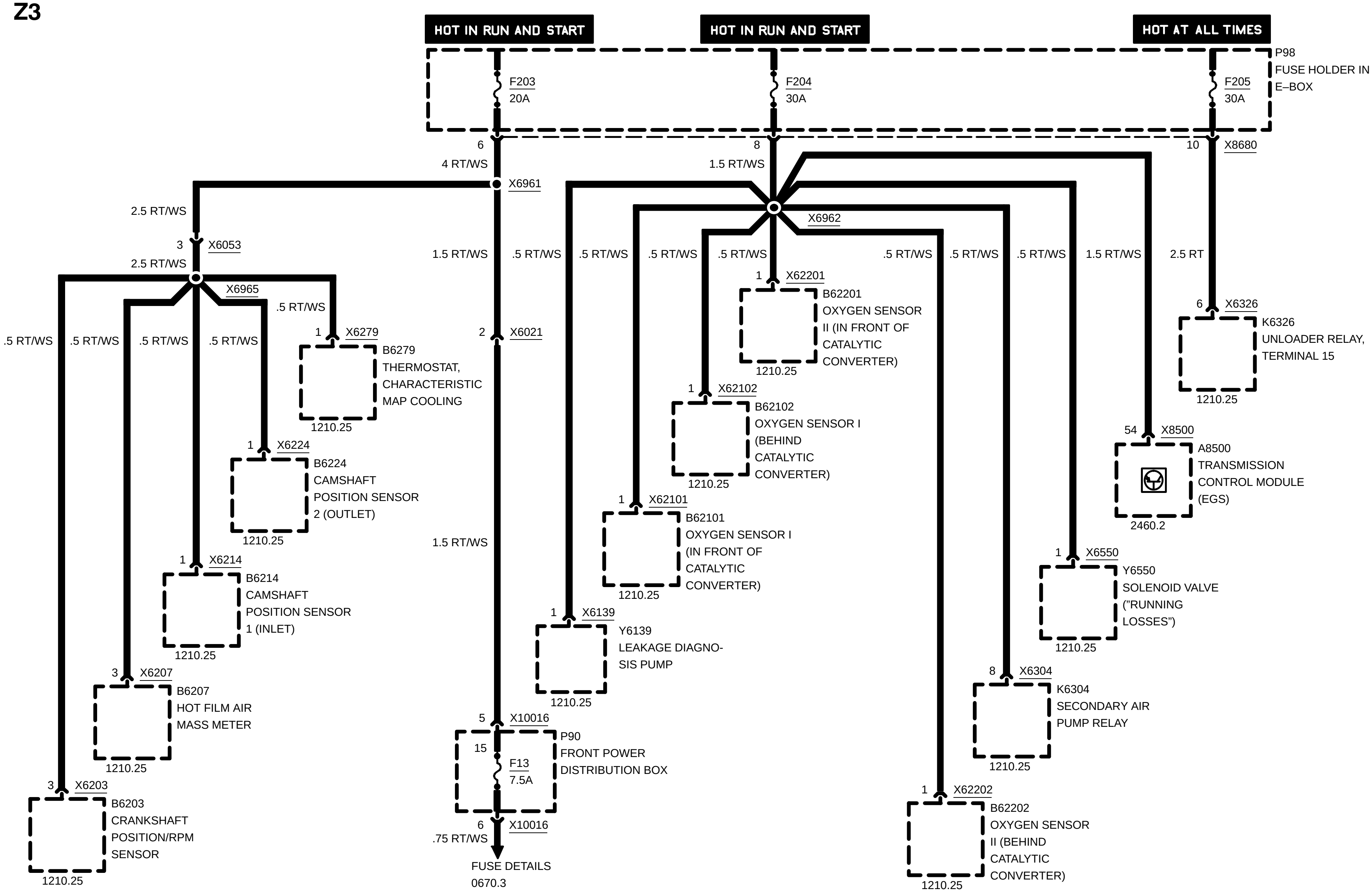
FUSE DETAILS

FUSE 202



FUSE DETAILS

FUSES 203, 204, AND 205

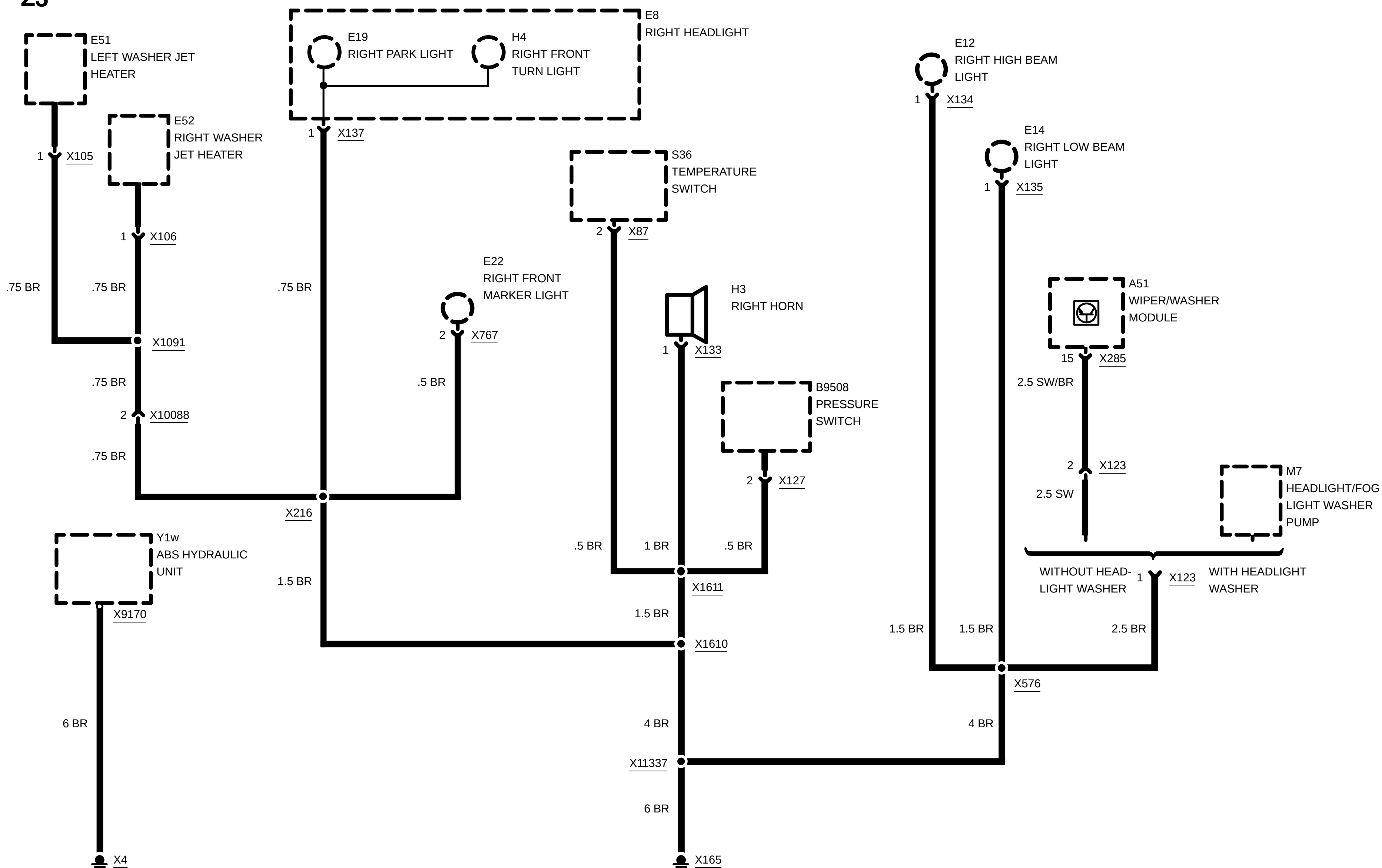


BMW 3 Z3

0670.4 GROUND DISTRIBUTION

M VERSIONS

GROUNDS X4 AND X165

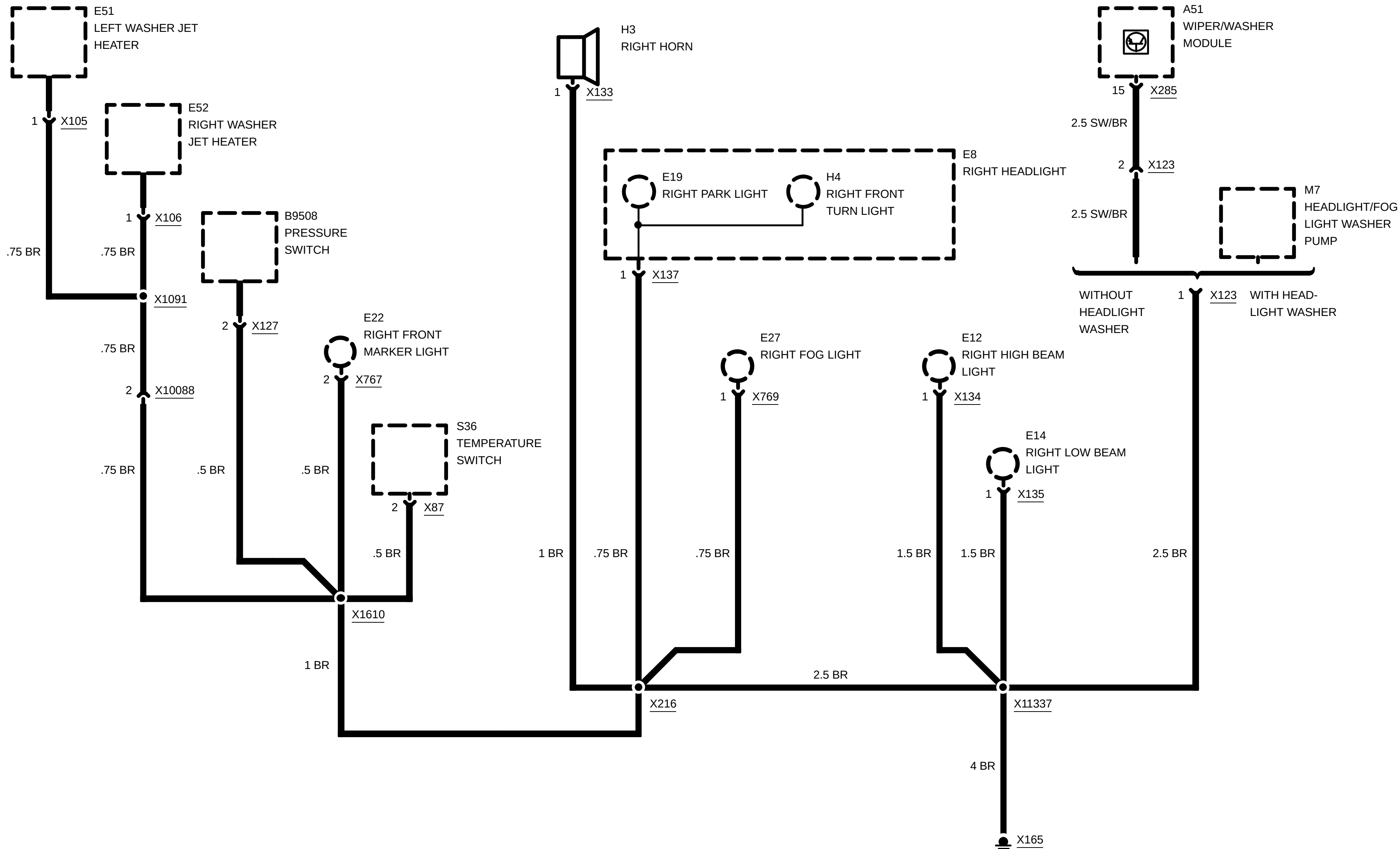


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X165

BMW 3 Z3

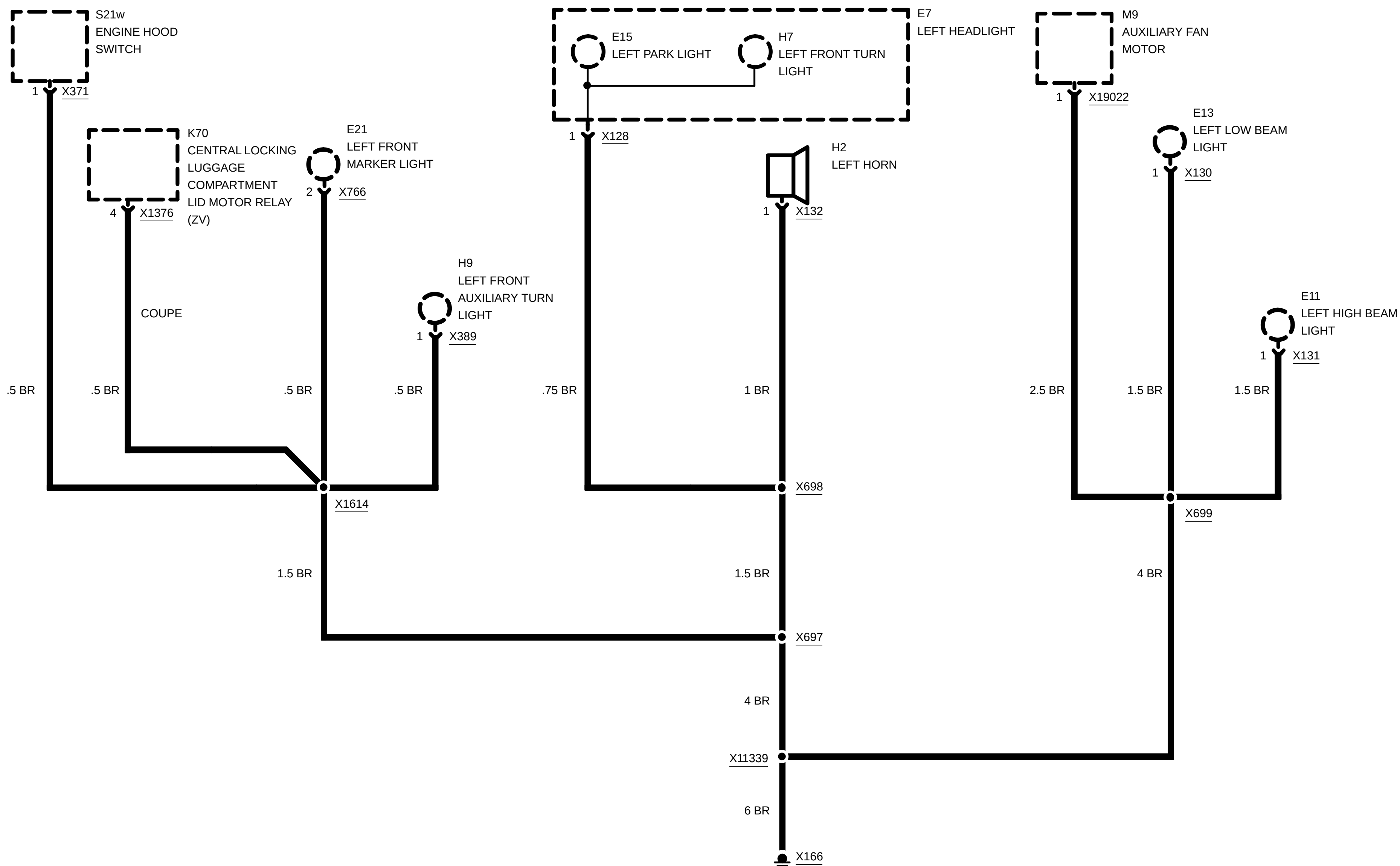


GROUND DISTRIBUTION

GROUND X166

M VERSIONS

BMW 3 Z3

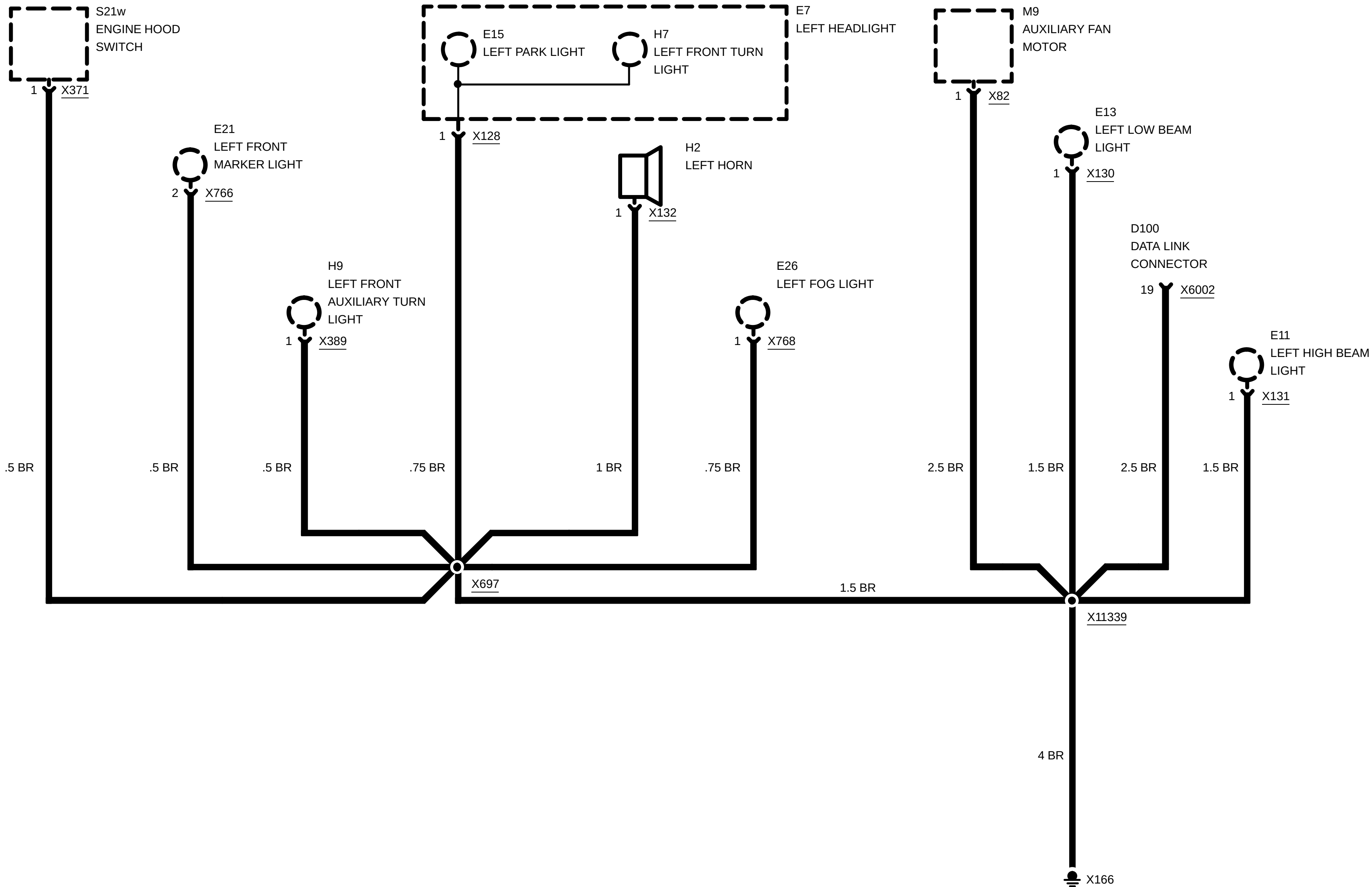


GROUND DISTRIBUTION

Z3 VERSIONS

BMW 3 Z3

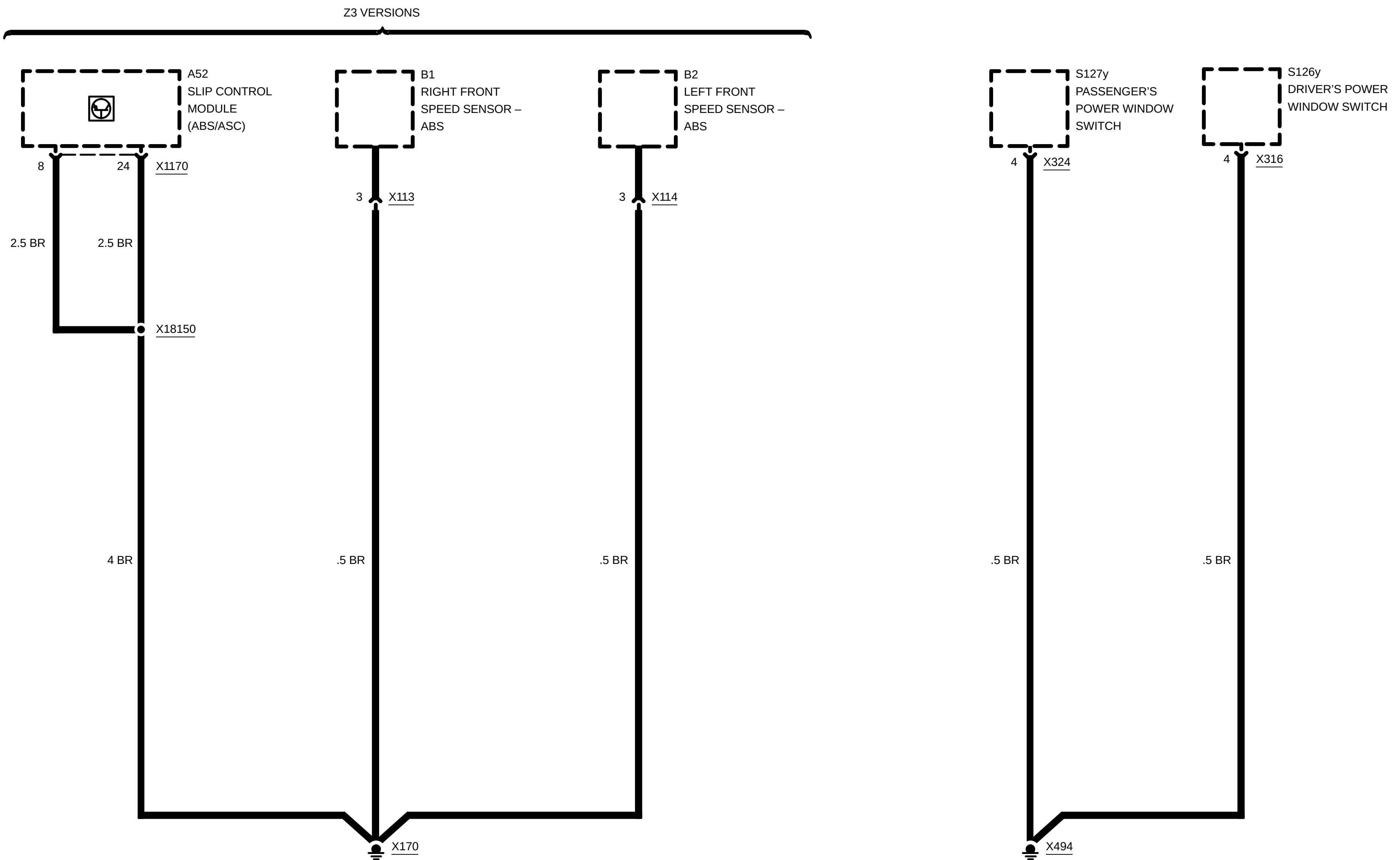
GROUND X166



BMW 3 Z3

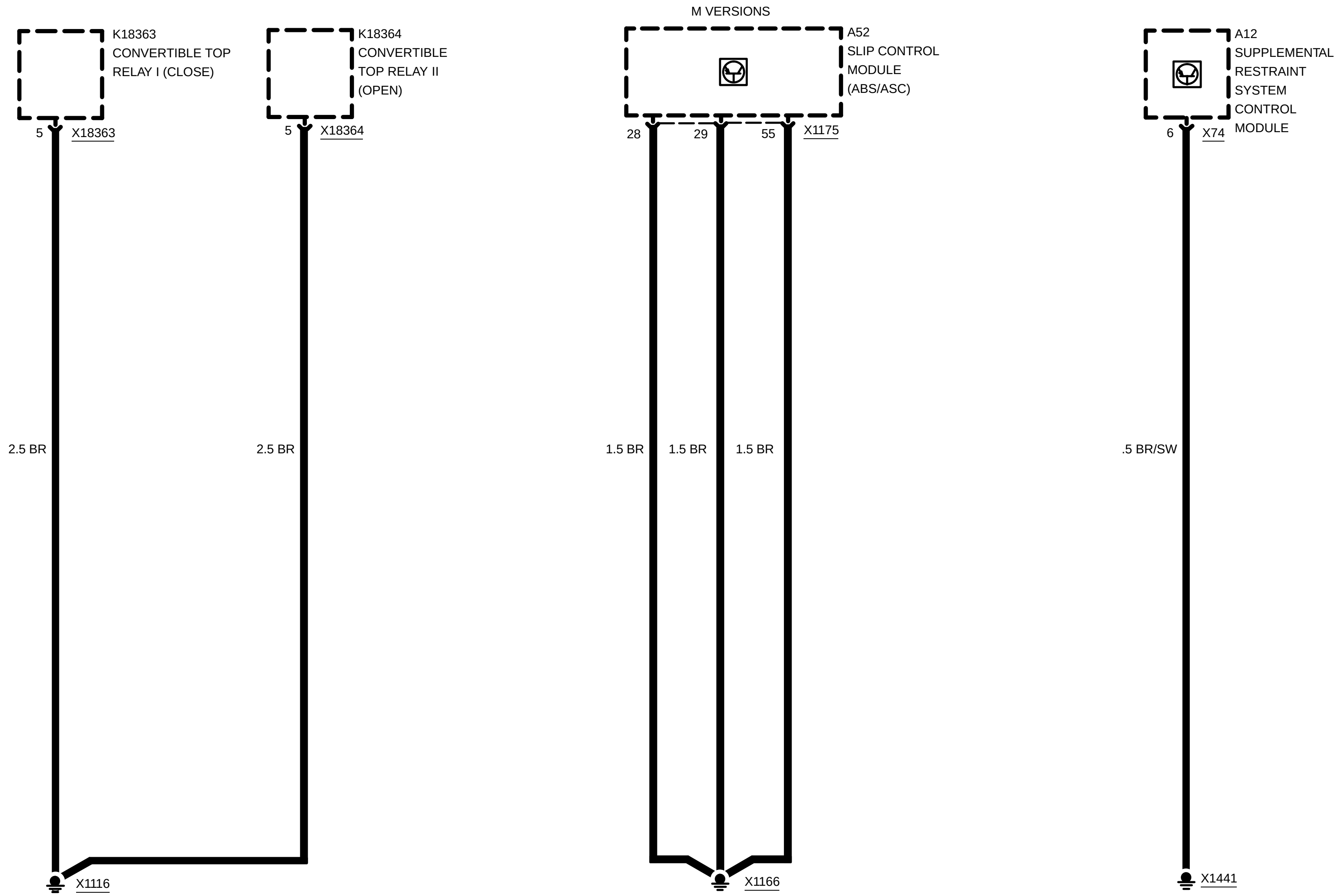
GROUND DISTRIBUTION

GROUNDS X170 AND X494



GROUND DISTRIBUTION

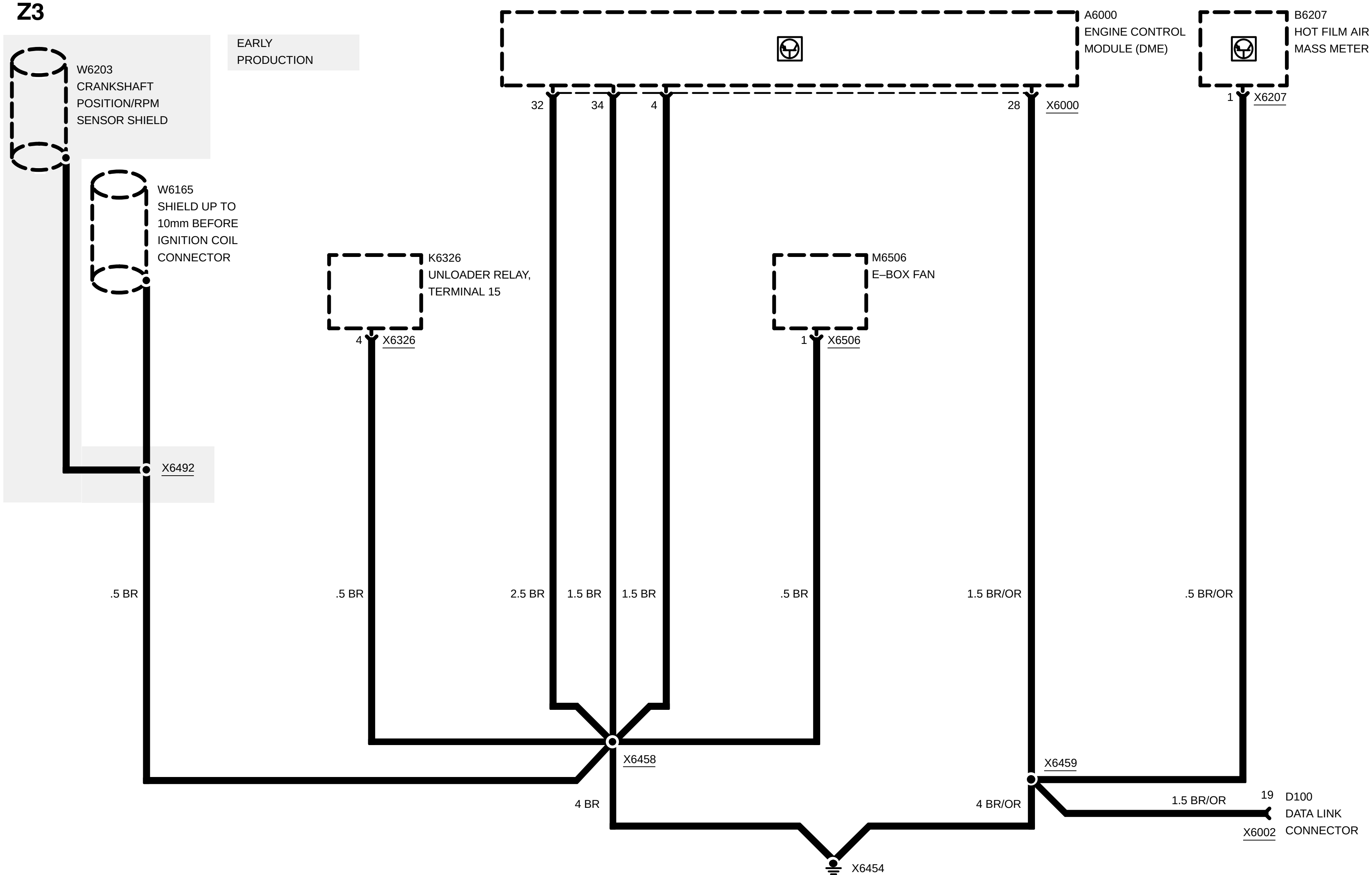
GROUNDS X1116, X1166, AND X1441



GROUND DISTRIBUTION

M VERSIONS

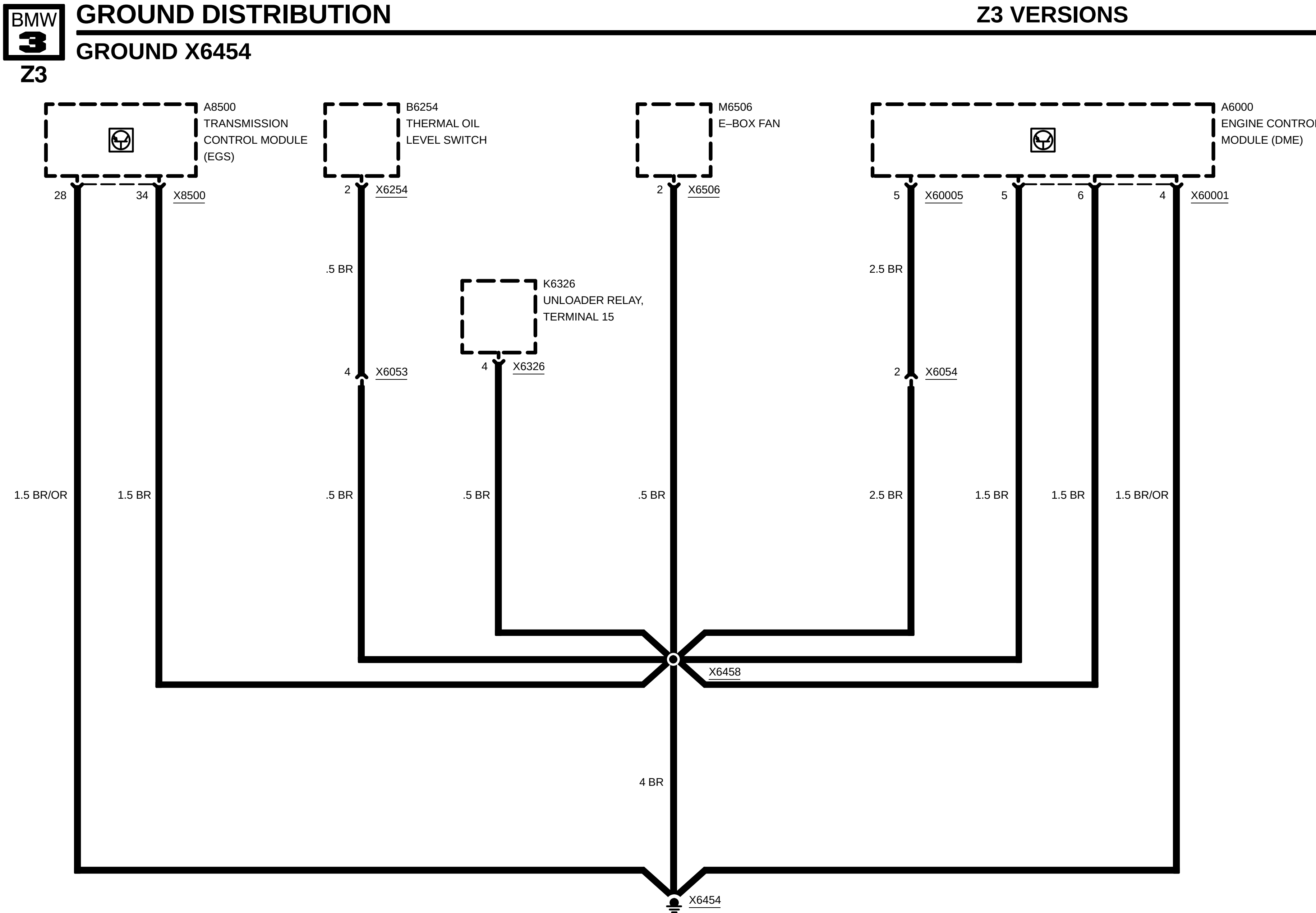
GROUND X6454



GROUND DISTRIBUTION

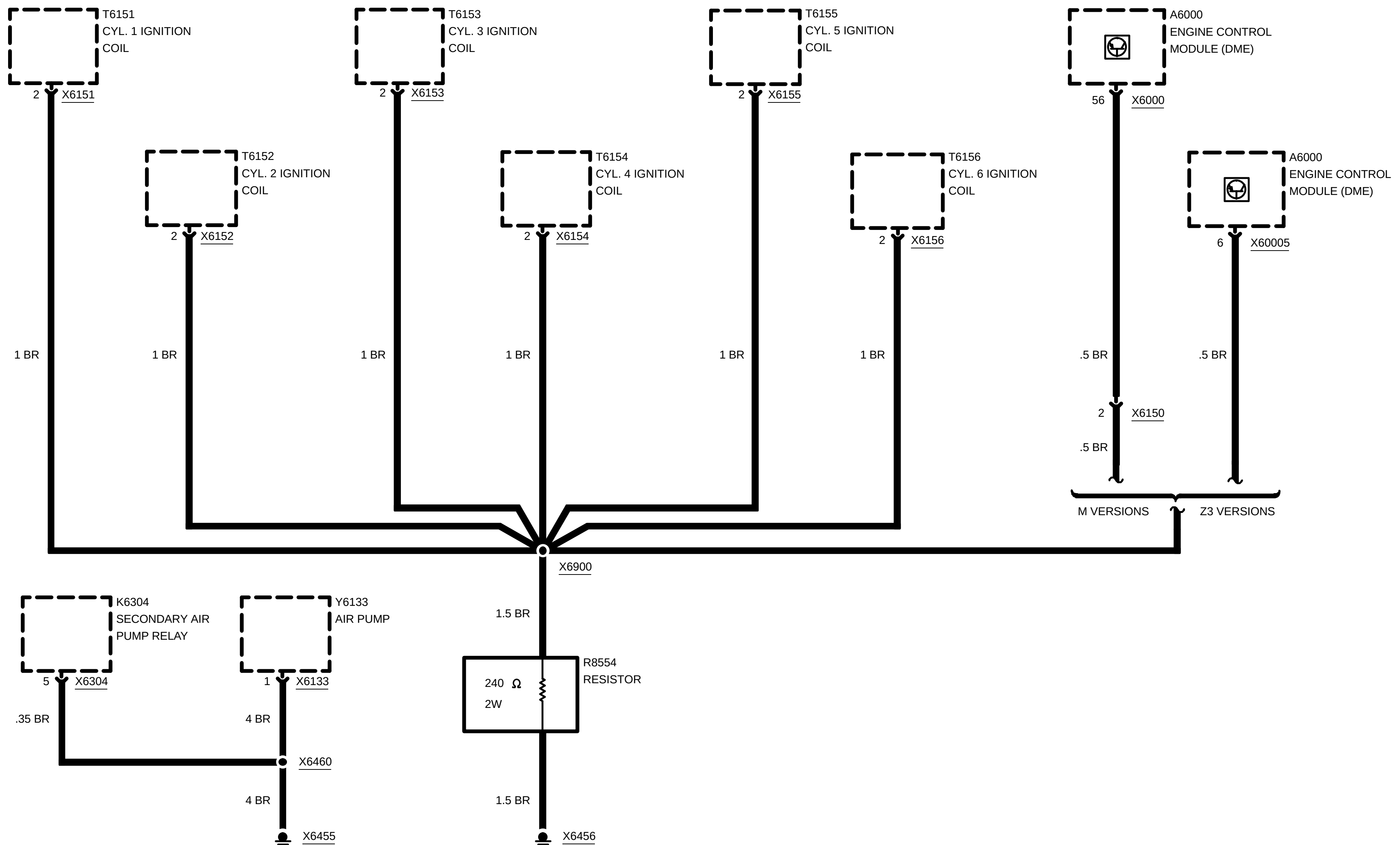
Z3 VERSIONS

GROUND X6454



GROUND DISTRIBUTION

GROUNDS X6455 AND X6456

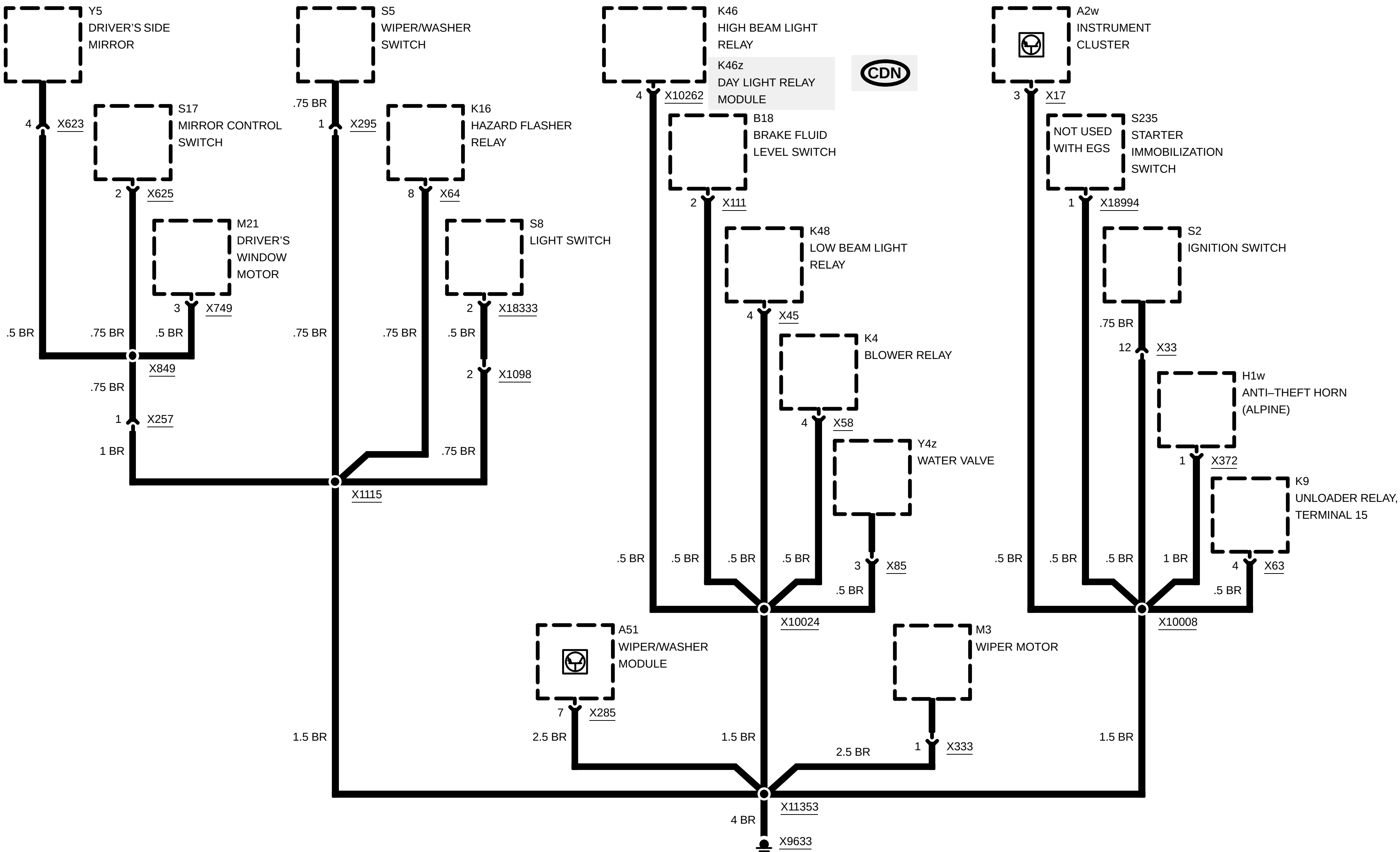


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X9633

BMW 3 Z3

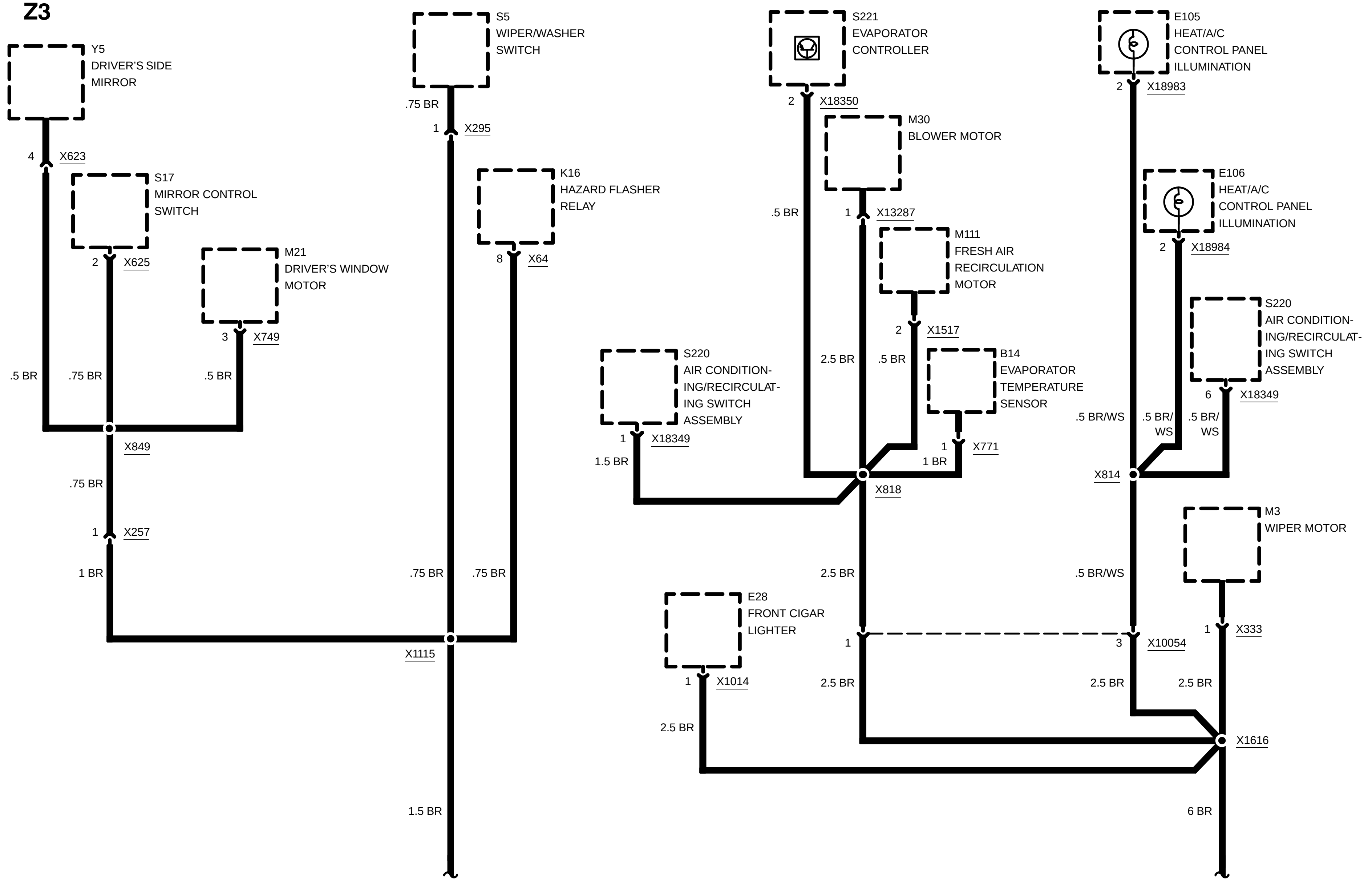


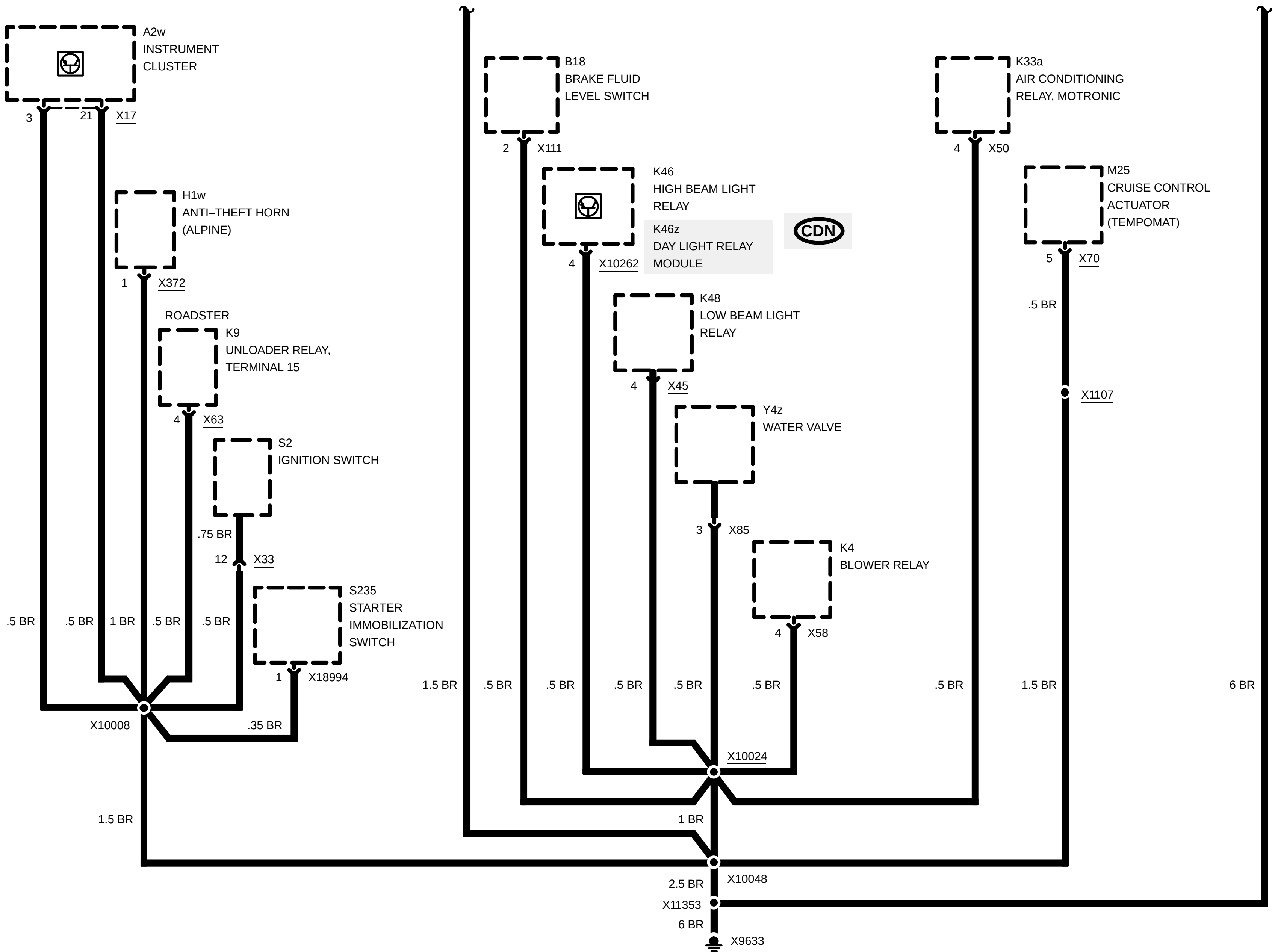
GROUND DISTRIBUTION

M VERSIONS

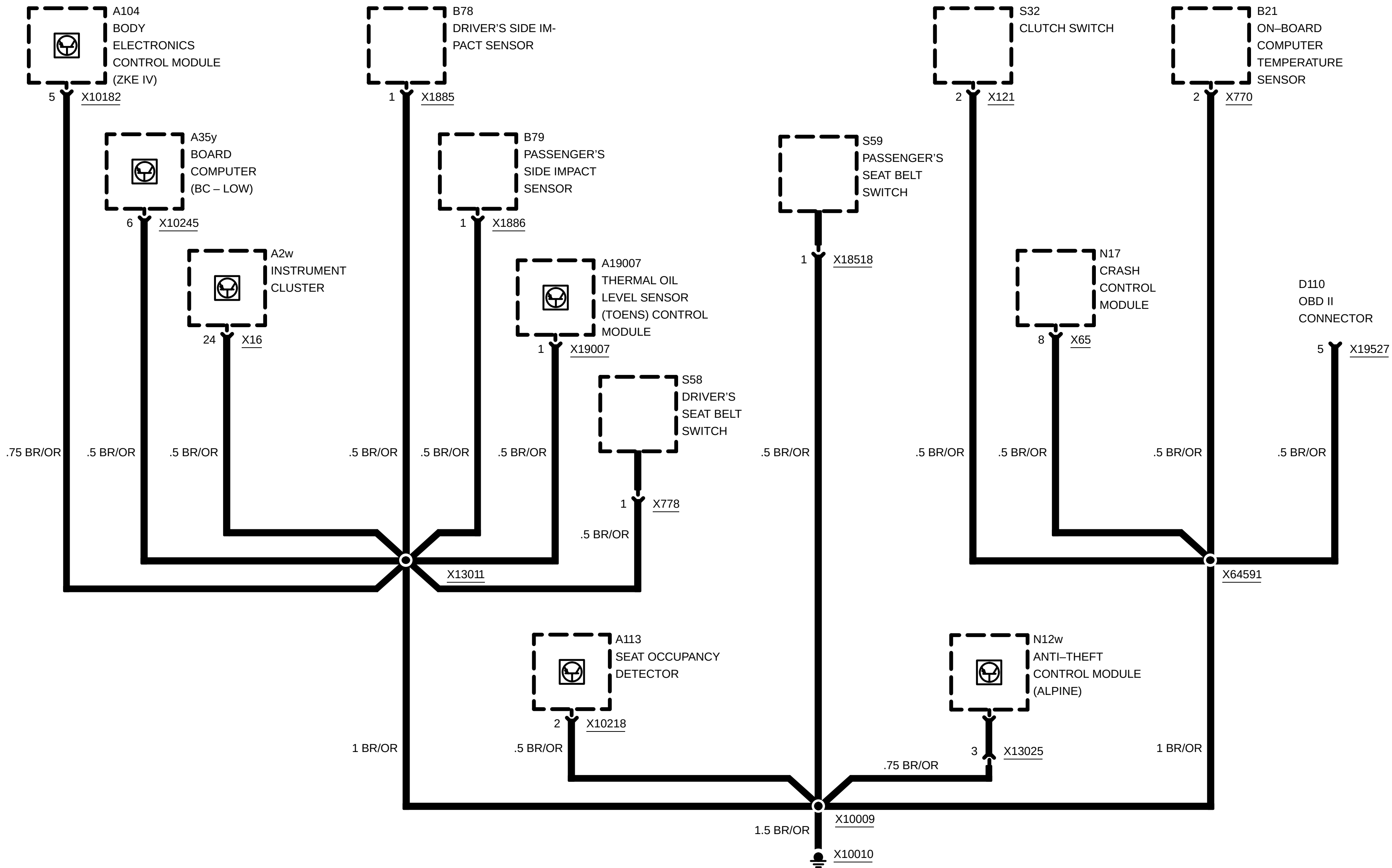
GROUND X9633

Z3




A2w
INSTRUMENT
CLUSTER
3
21
X17
H1w
ANTI–THEFT HORN
(ALPINE)
1
X372
ROADSTER
K9
UNLOADER RELAY,
TERMINAL 15
4
X63
S2
IGNITION SWITCH
.75 BR
12
X33
S235
STARTER
IMMOBILIZATION
SWITCH
1
X18994
.5 BR
.5 BR
1 BR
.5 BR
.5 BR
X10008
.35 BR
1.5 BR
B18
BRAKE FLUID
LEVEL SWITCH
2
X111
K46
HIGH BEAM LIGHT
RELAY
K46z
DAY LIGHT RELAY
MODULE
CDN
4
X10262
K48
LOW BEAM LIGHT
RELAY
4
X45
Y4z
WATER VALVE
3
X85
K4
BLOWER RELAY
4
X58
K33a
AIR CONDITIONING
RELAY, MOTRONIC
4
X50
M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)
5
X70
.5 BR
X1107
1.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
1.5 BR
6 BR
X10024
1 BR
X10048
2.5 BR
X11353
6 BR
X9633

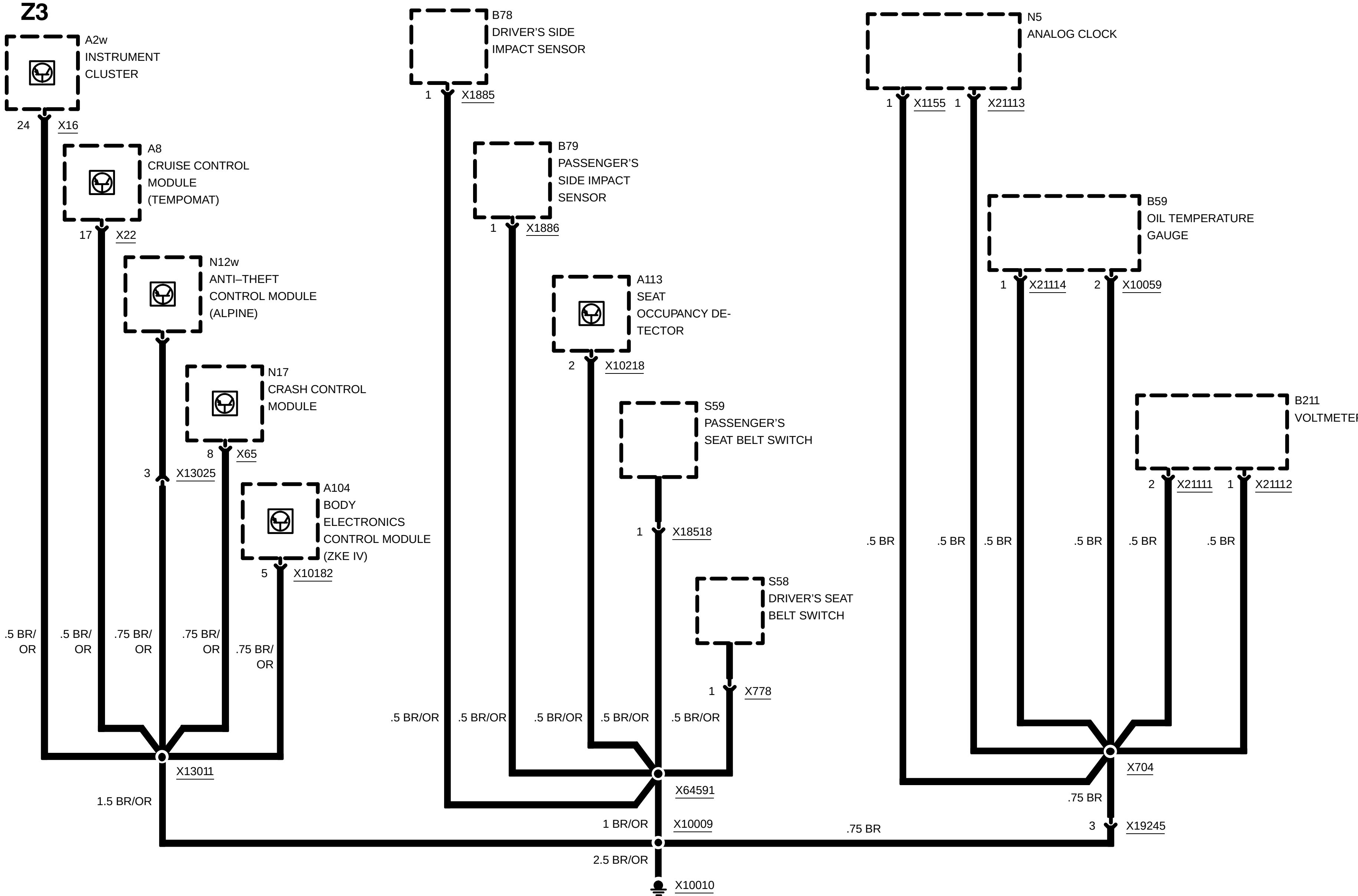
GROUND X10010



GROUND DISTRIBUTION

M VERSIONS

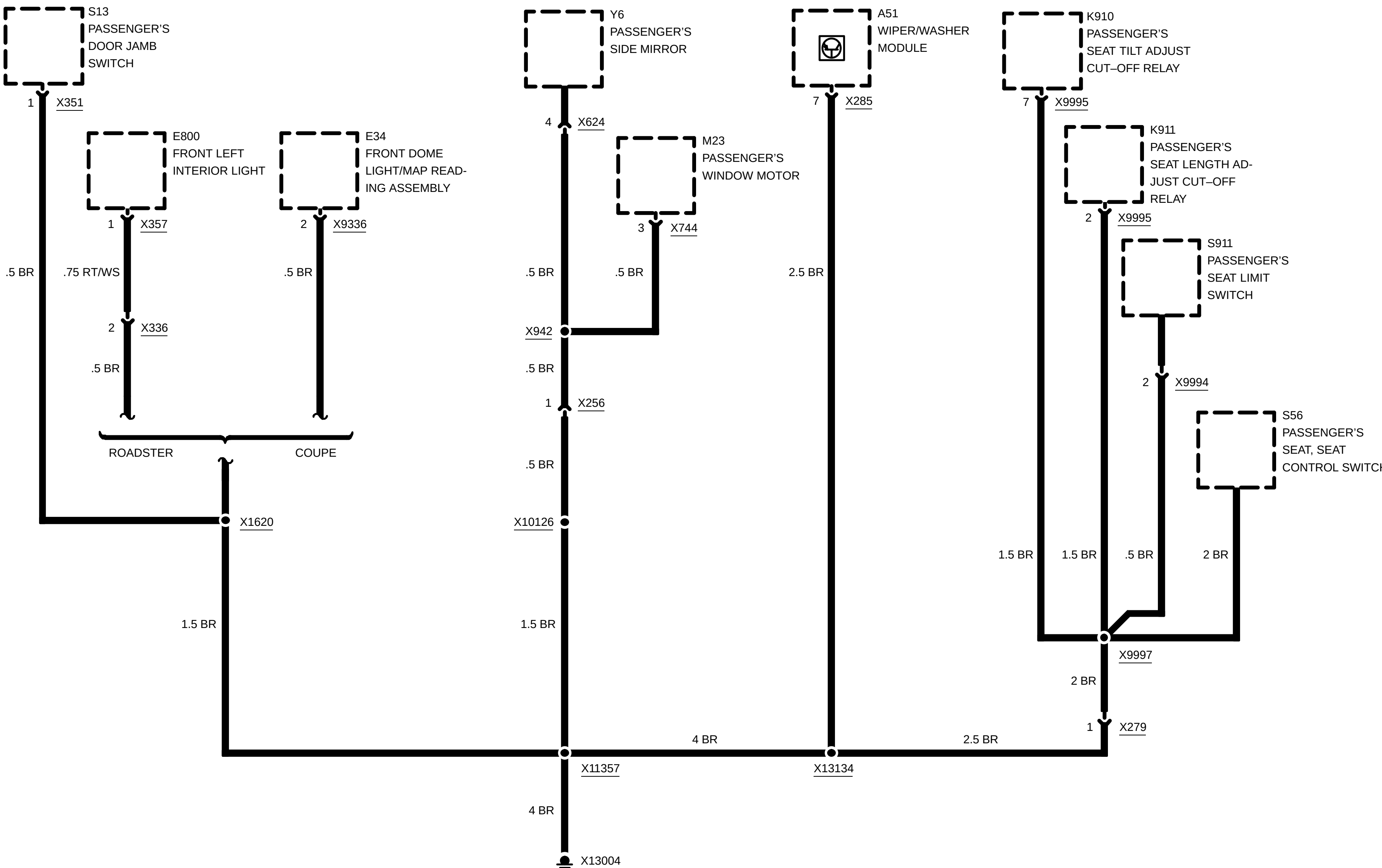
GROUND X10010



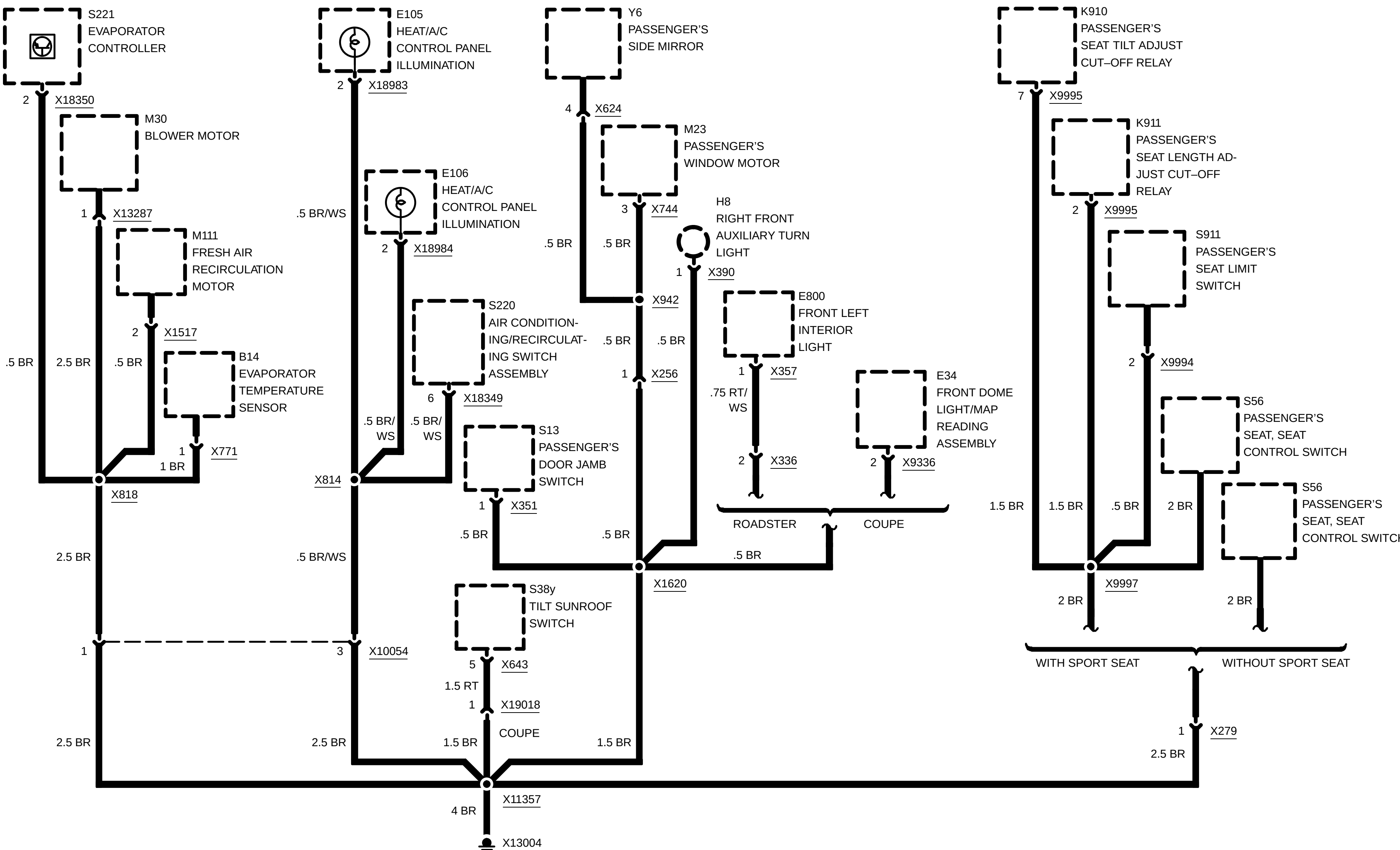
GROUND DISTRIBUTION
M VERSIONS

GROUND X13004

Z3



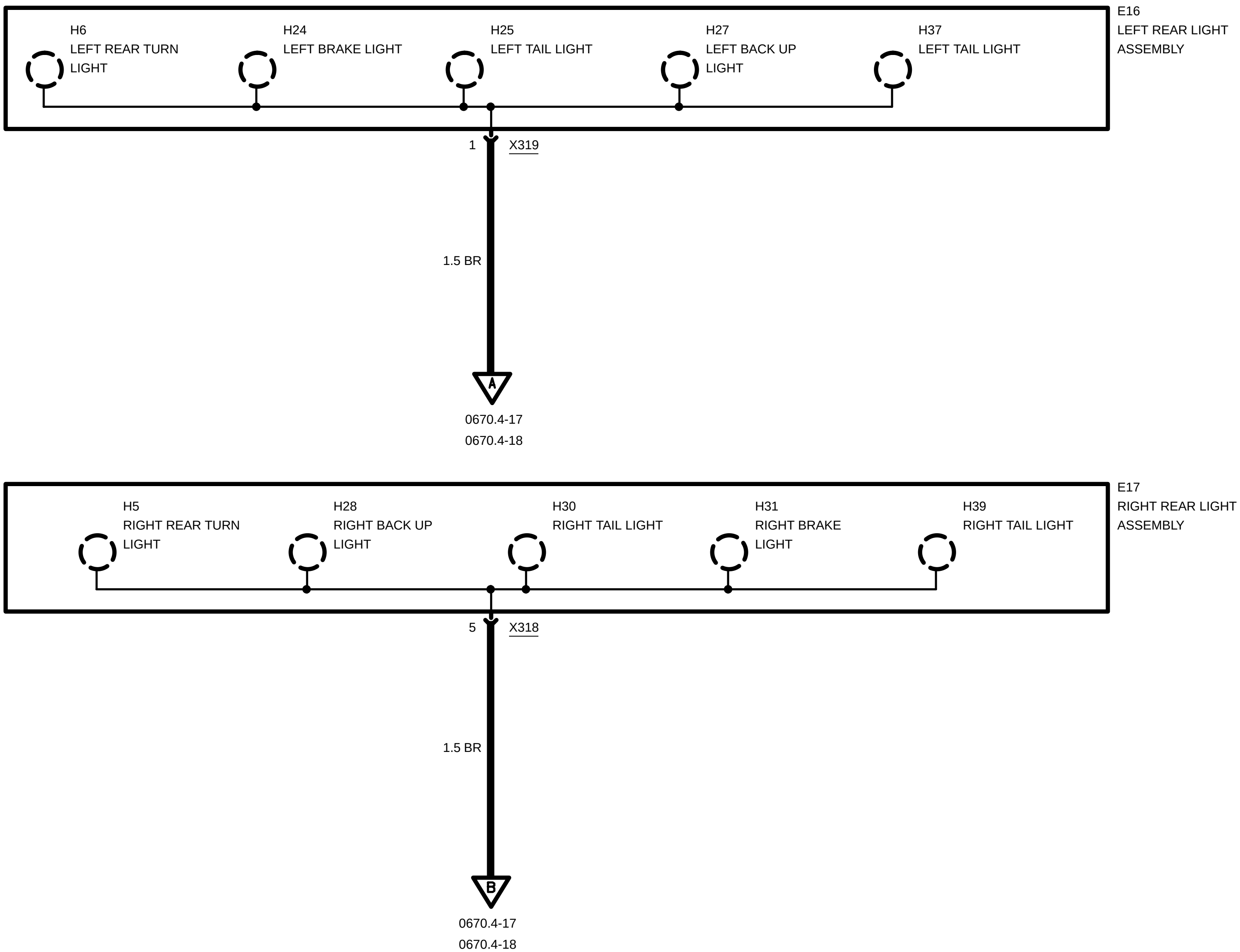
GROUND X13004



GROUND DISTRIBUTION

GROUND X13006

BMW 3 Z3

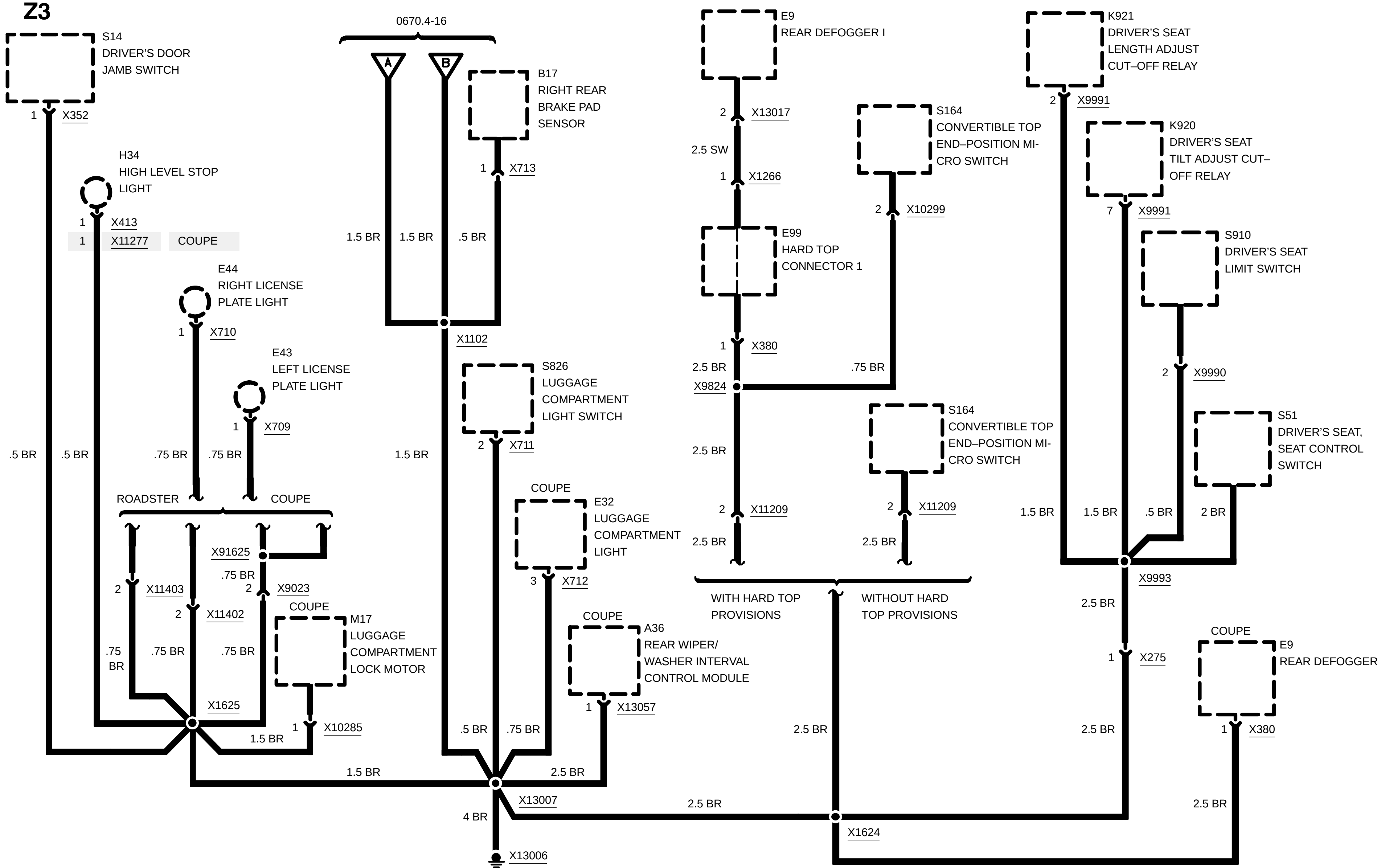


BMW 3 Z3

GROUND DISTRIBUTION

M VERSIONS

GROUND X13006

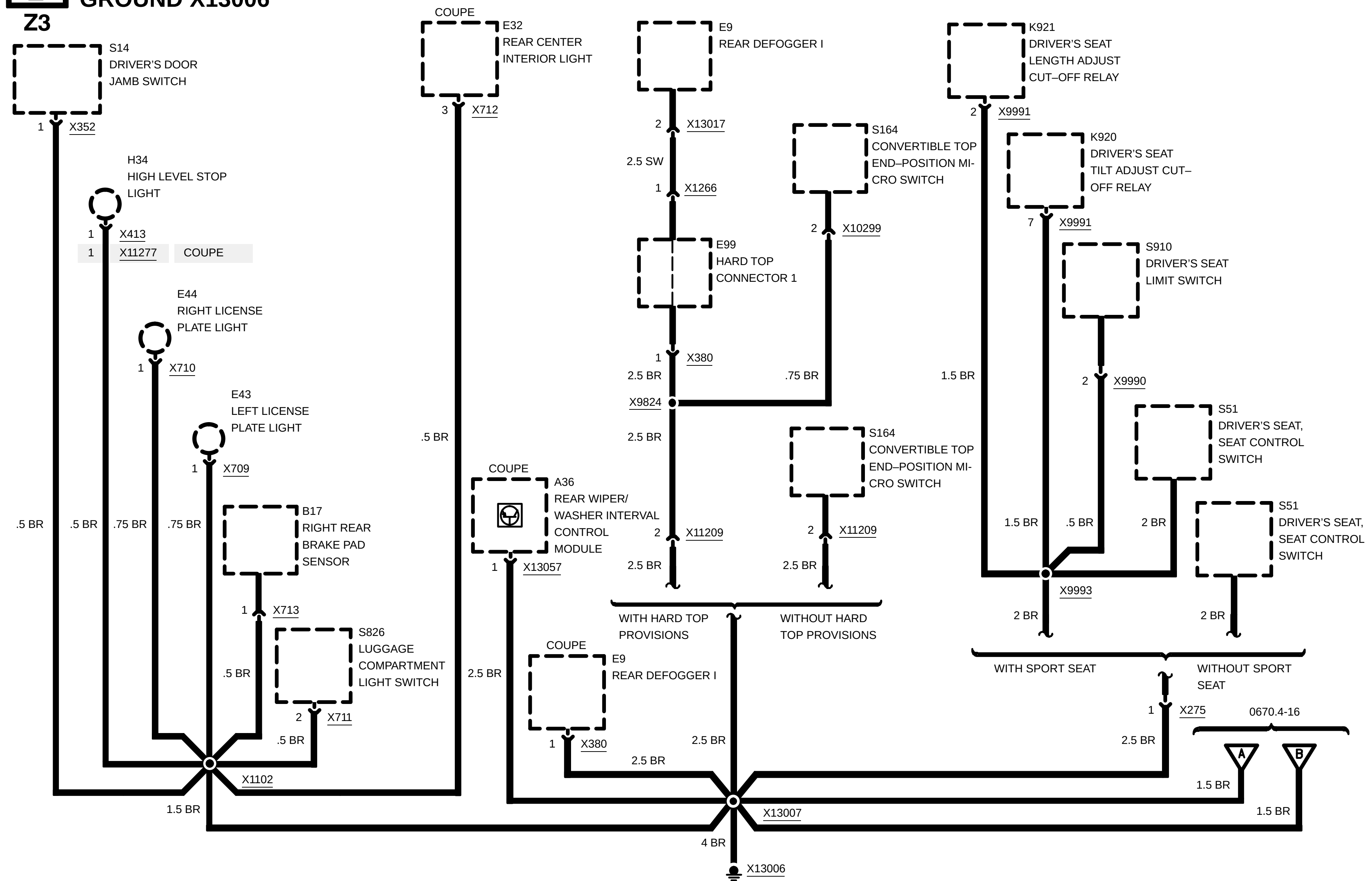


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X13006

Z3



03/00

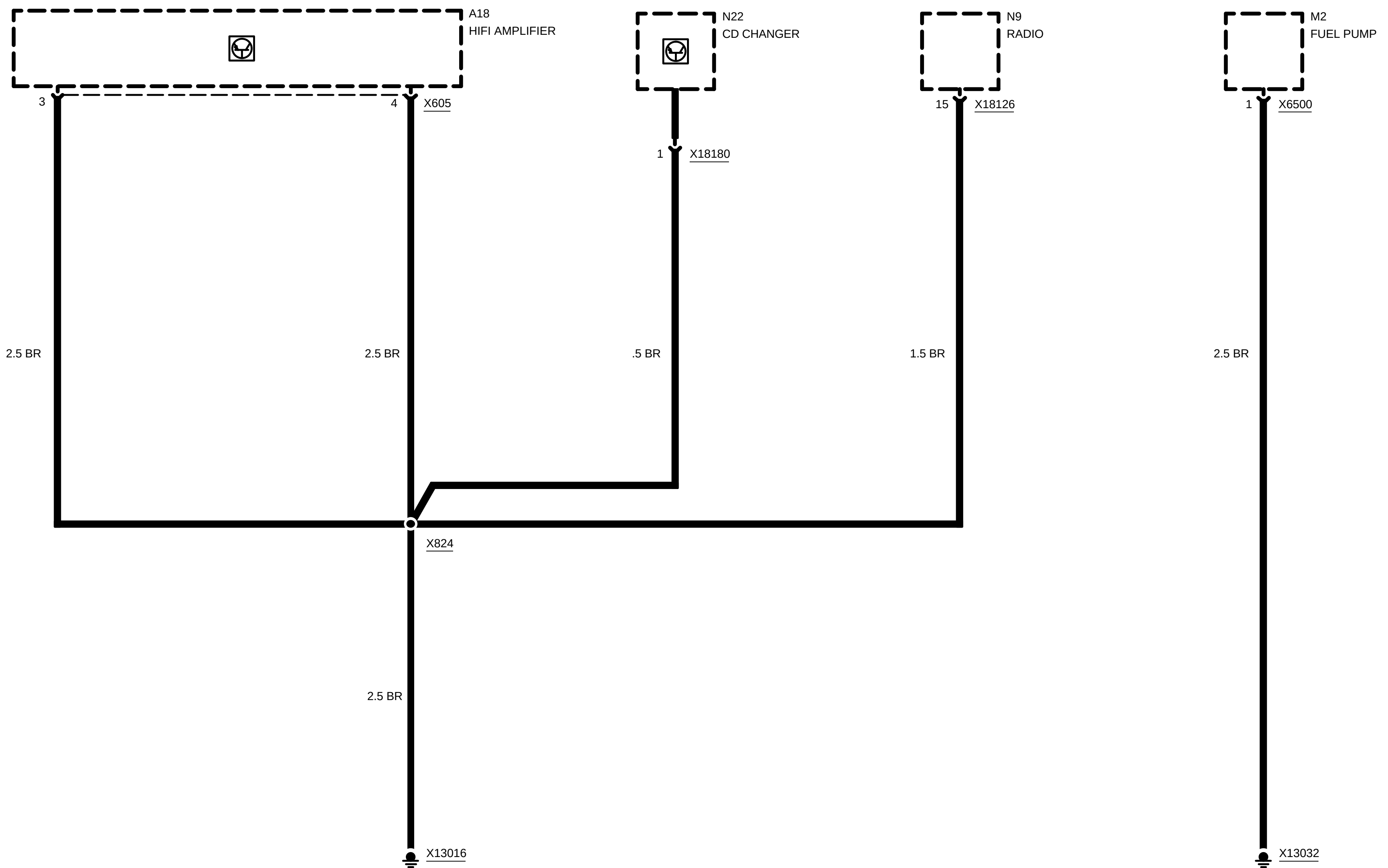
0670.4-18

1999

BMW 3 Z3

GROUND DISTRIBUTION

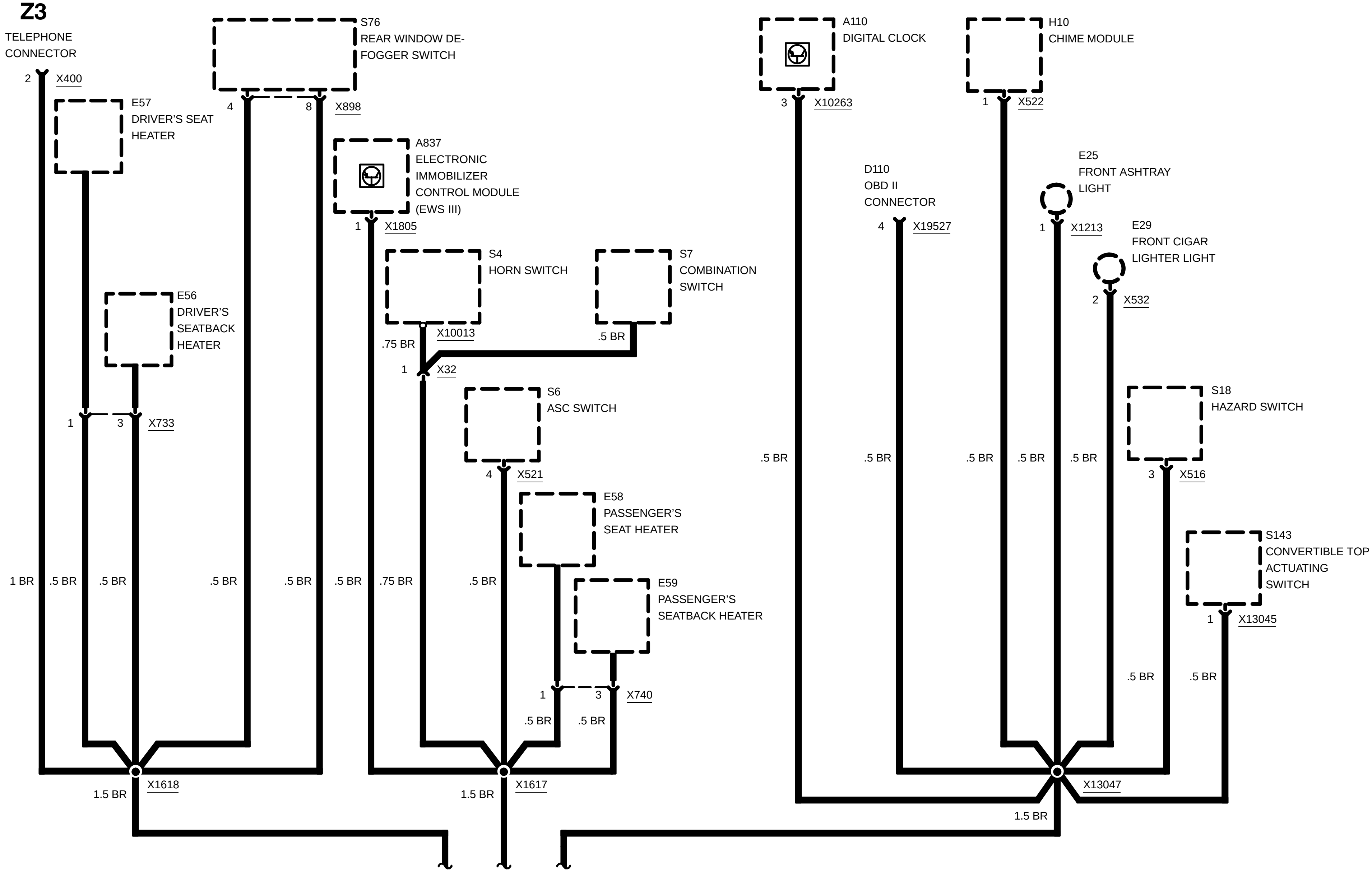
GROUNDS X13016 AND X13032

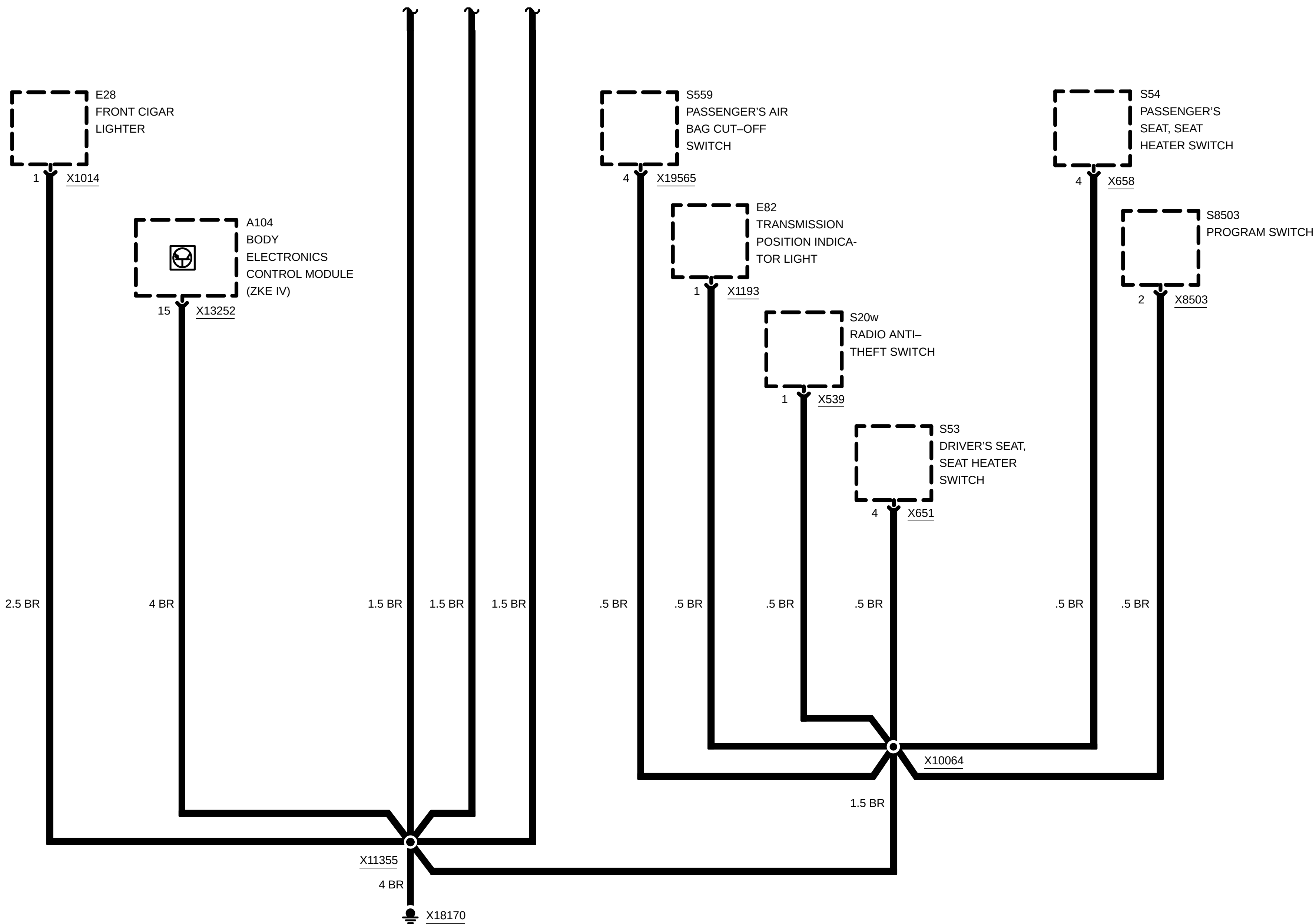


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X18170

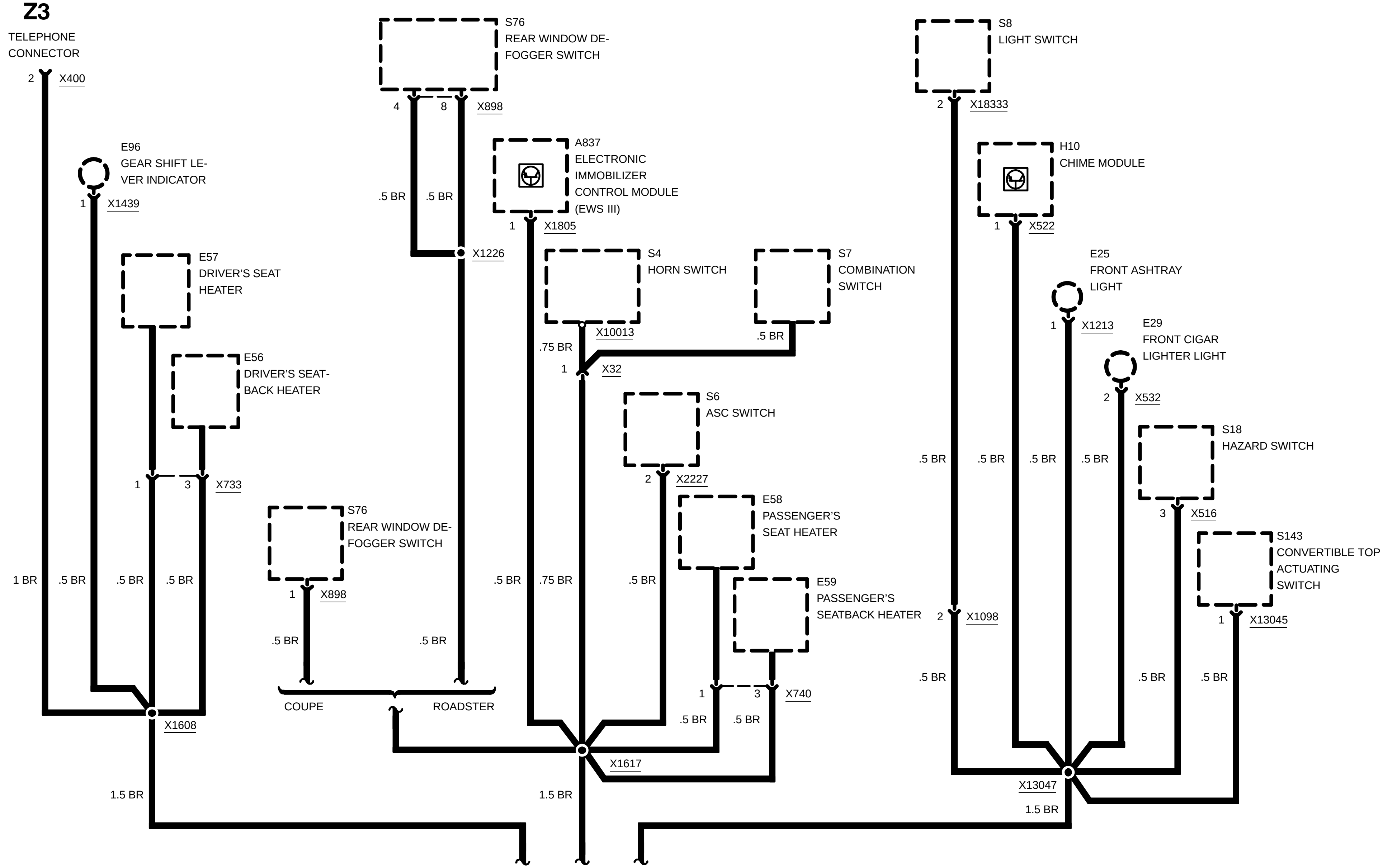


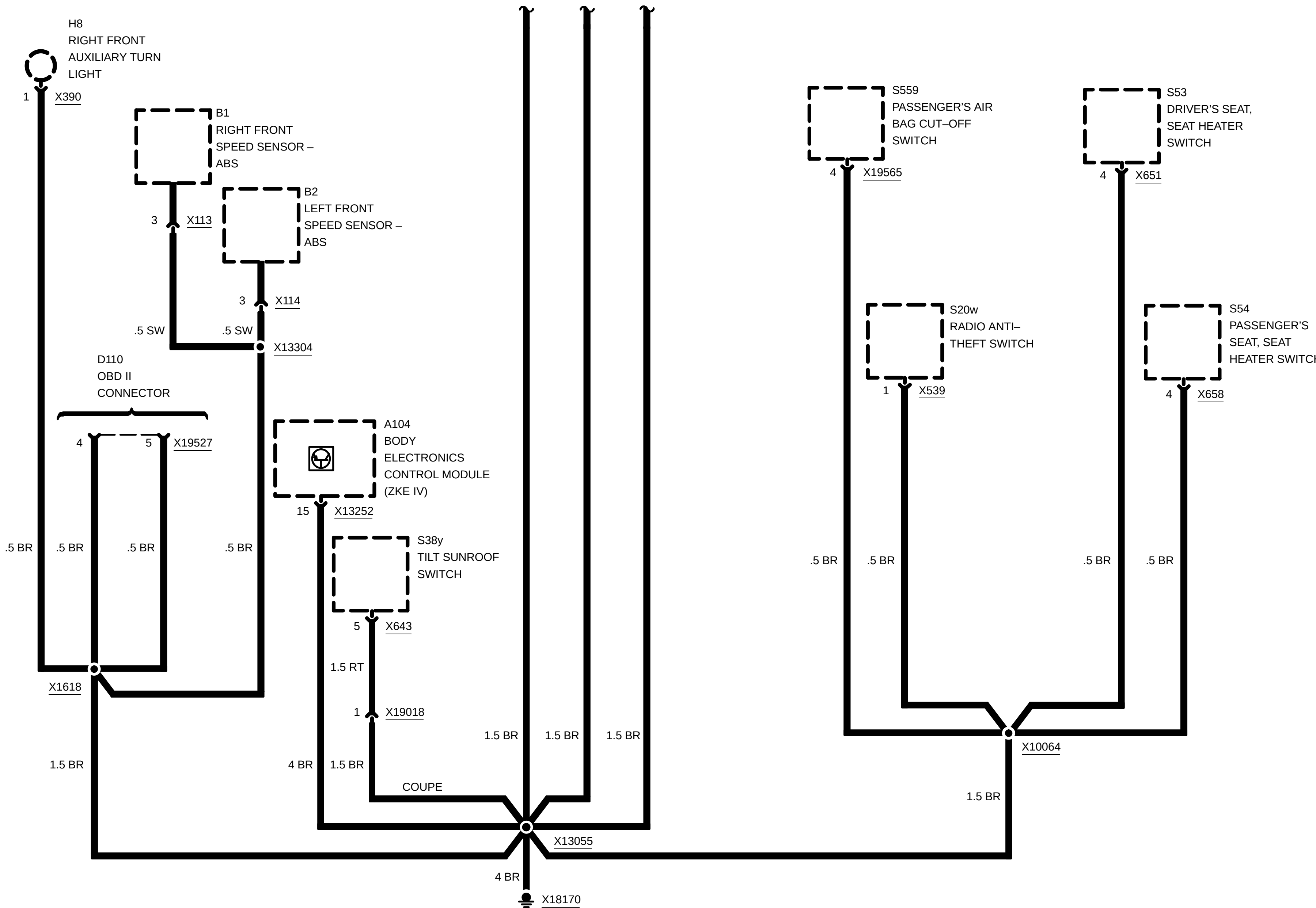

E28
FRONT CIGAR
LIGHTER
1 X1014
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
15 X13252
S559
PASSENGER'S AIR
BAG CUT–OFF
SWITCH
4 X19565
E82
TRANSMISSION
POSITION INDICA-
TOR LIGHT
1 X1193
S20w
RADIO ANTI–
THEFT SWITCH
1 X539
S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH
4 X651
S54
PASSENGER'S
SEAT, SEAT
HEATER SWITCH
4 X658
S8503
PROGRAM SWITCH
2 X8503
2.5 BR
4 BR
1.5 BR
1.5 BR
1.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
.5 BR
X10064
1.5 BR
X11355
4 BR
X18170

GROUND DISTRIBUTION

M VERSIONS

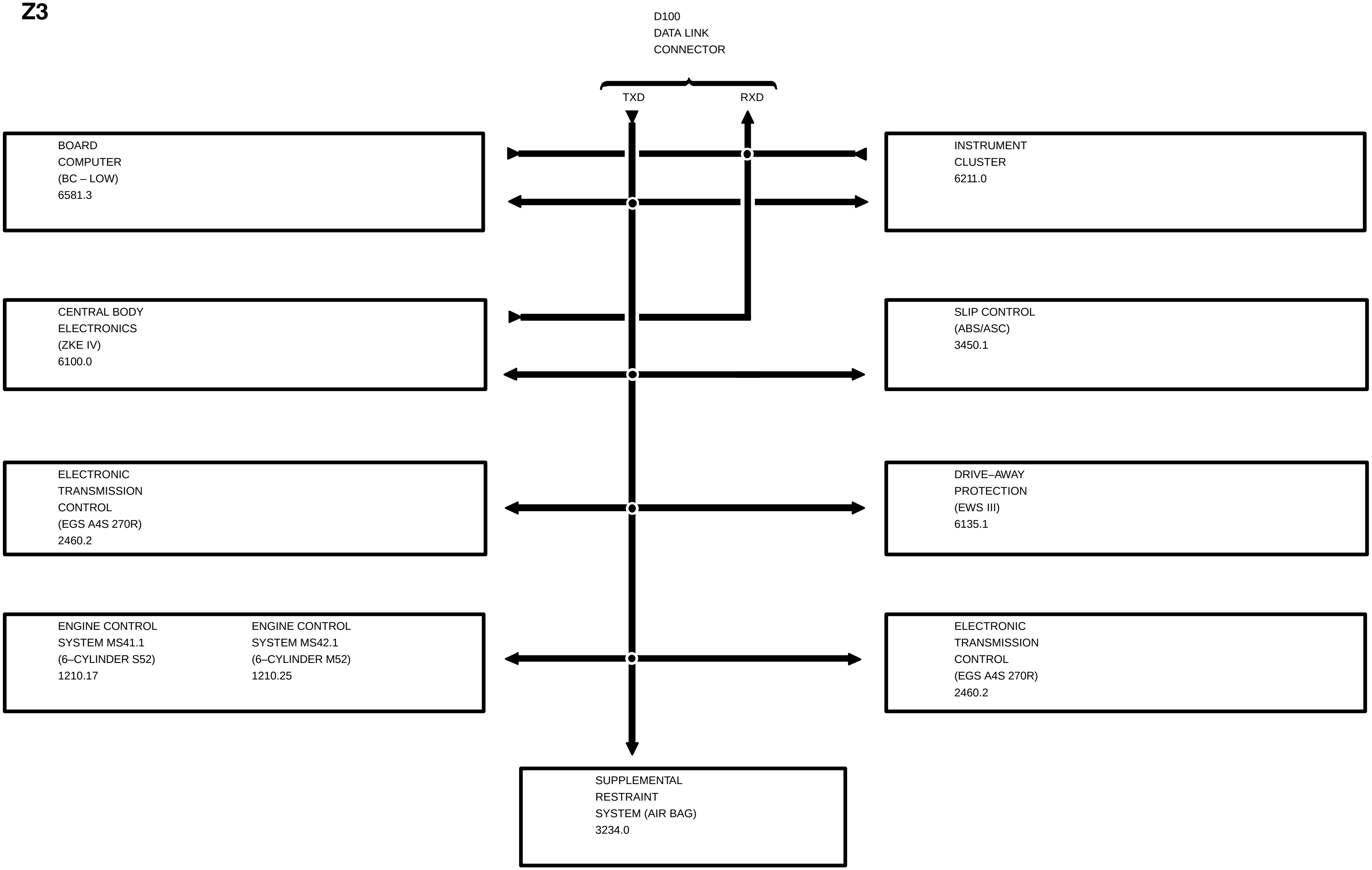
GROUND X18170




H8
RIGHT FRONT
AUXILIARY TURN
LIGHT
1 X390
B1
RIGHT FRONT
SPEED SENSOR –
ABS
3 X113
B2
LEFT FRONT
SPEED SENSOR –
ABS
3 X114
.5 SW
.5 SW
X13304
D110
OBD II
CONNECTOR
4
5 X19527
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
15 X13252
S38y
TILT SUNROOF
SWITCH
5 X643
1.5 RT
1 X19018
.5 BR
.5 BR
.5 BR
.5 BR
X1618
1.5 BR
4 BR
1.5 BR
COUPE
1.5 BR
1.5 BR
1.5 BR
X13055
4 BR
X18170
S559
PASSENGER'S AIR
BAG CUT–OFF
SWITCH
4 X19565
S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH
4 X651
S20w
RADIO ANTI–
THEFT SWITCH
1 X539
S54
PASSENGER'S
SEAT, SEAT
HEATER SWITCH
4 X658
.5 BR
.5 BR
.5 BR
.5 BR
X10064
1.5 BR

0670.5 DATA LINK

BLOCK DIAGRAM

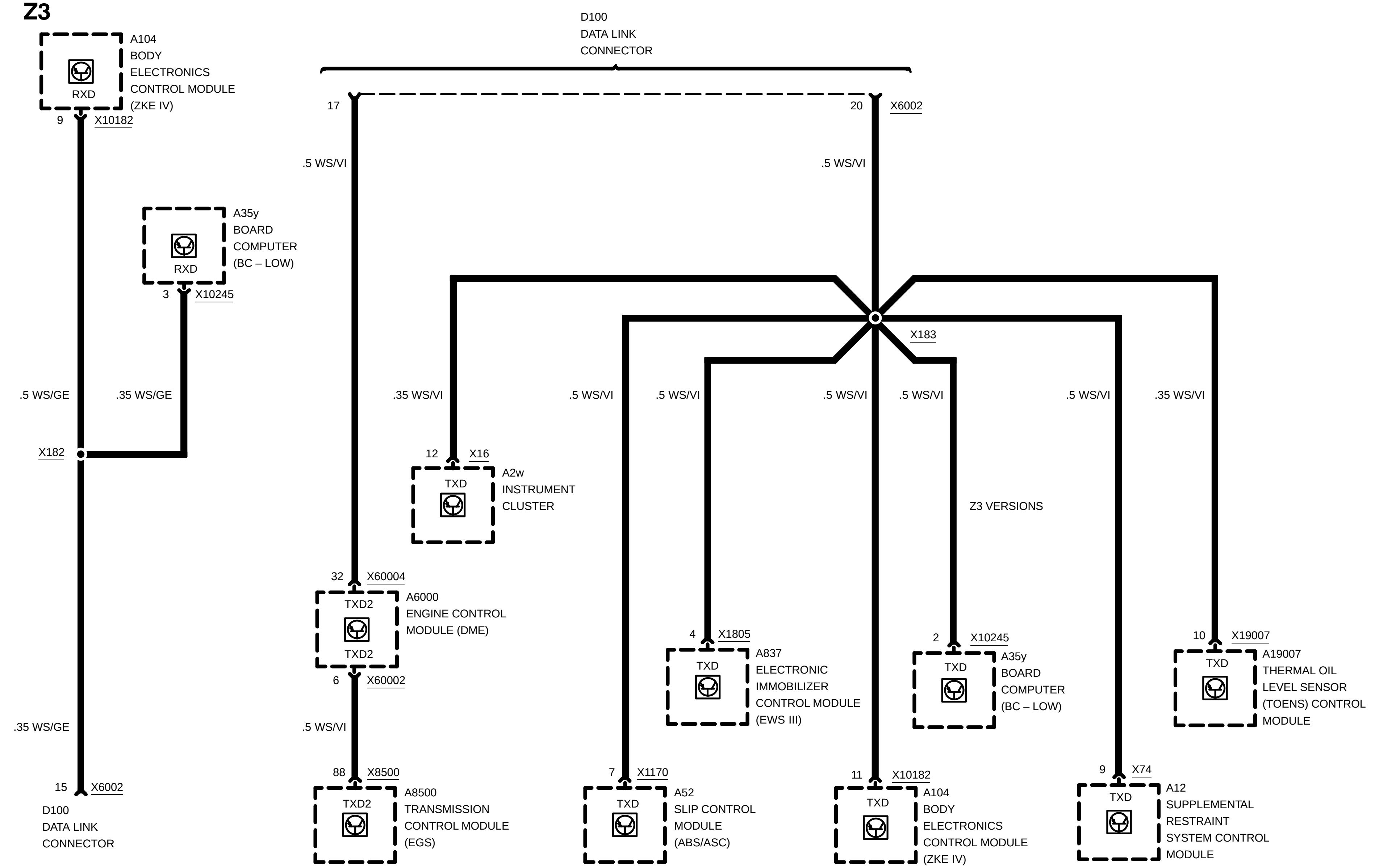


DATA LINK

RXD AND TXD

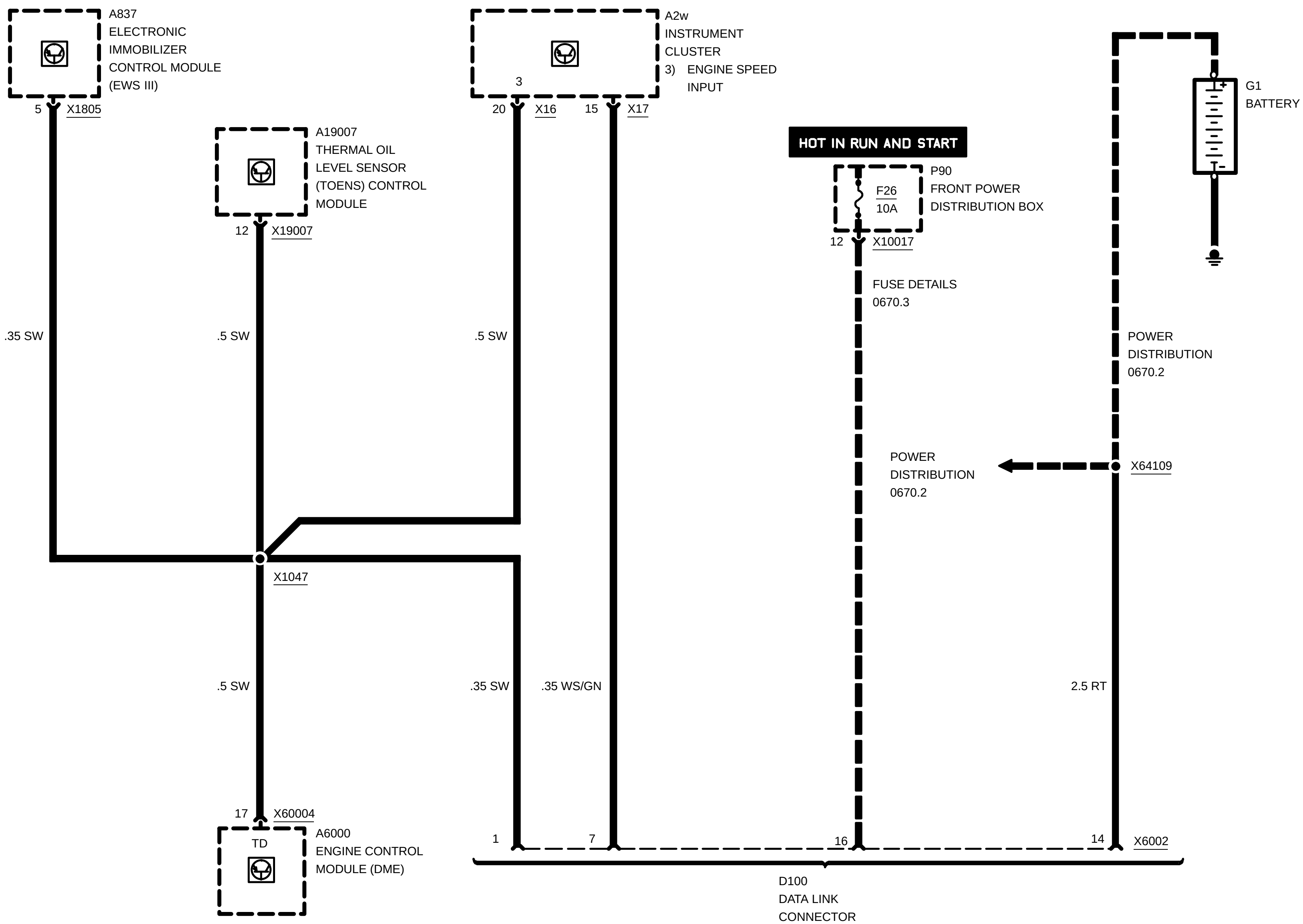
Z3 VERSIONS

BMW 3 Z3



DATA LINK

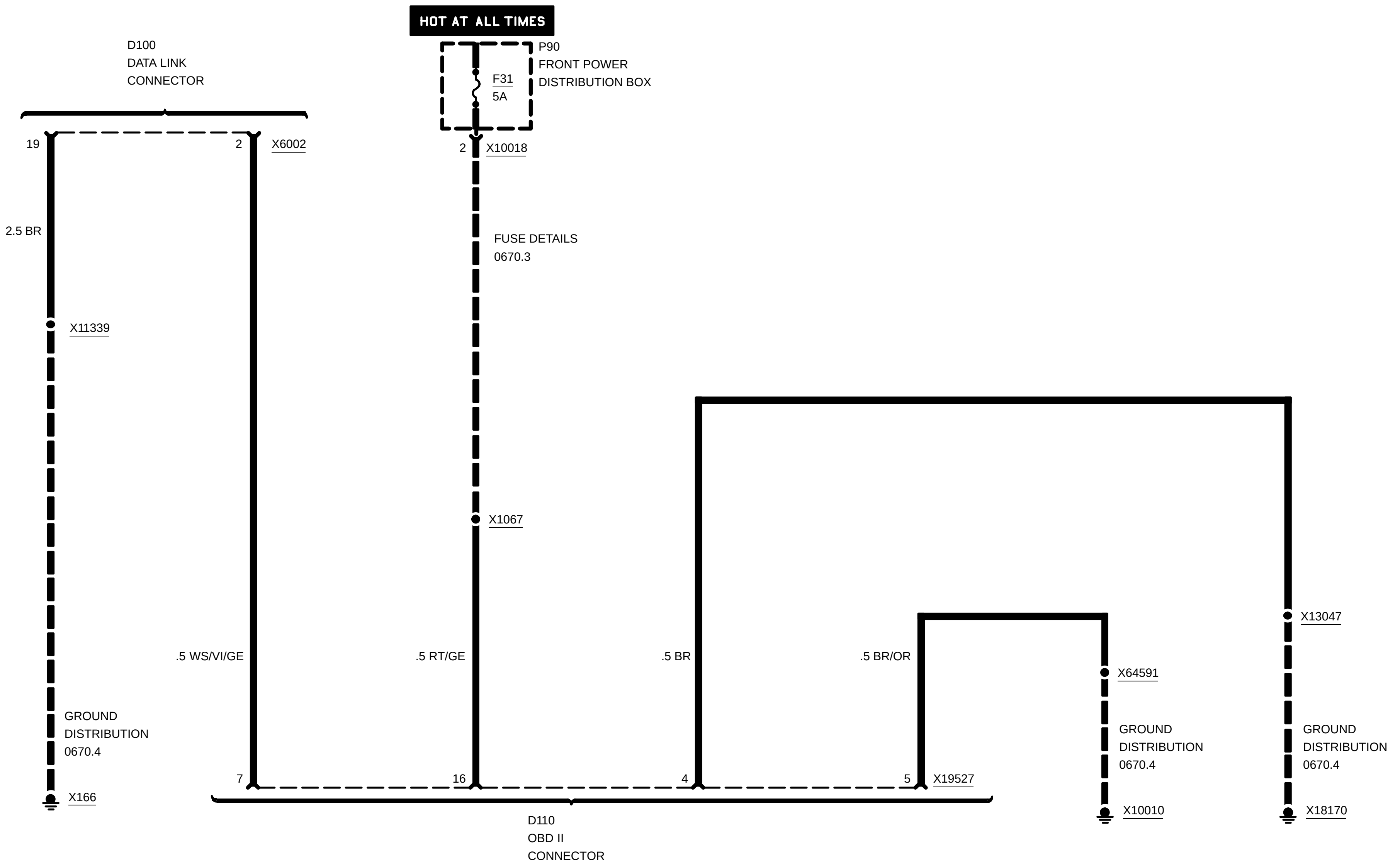
DATA LINK CONNECTOR, PINS 1, 7, 14, AND 16



DATA LINK

Z3 VERSIONS

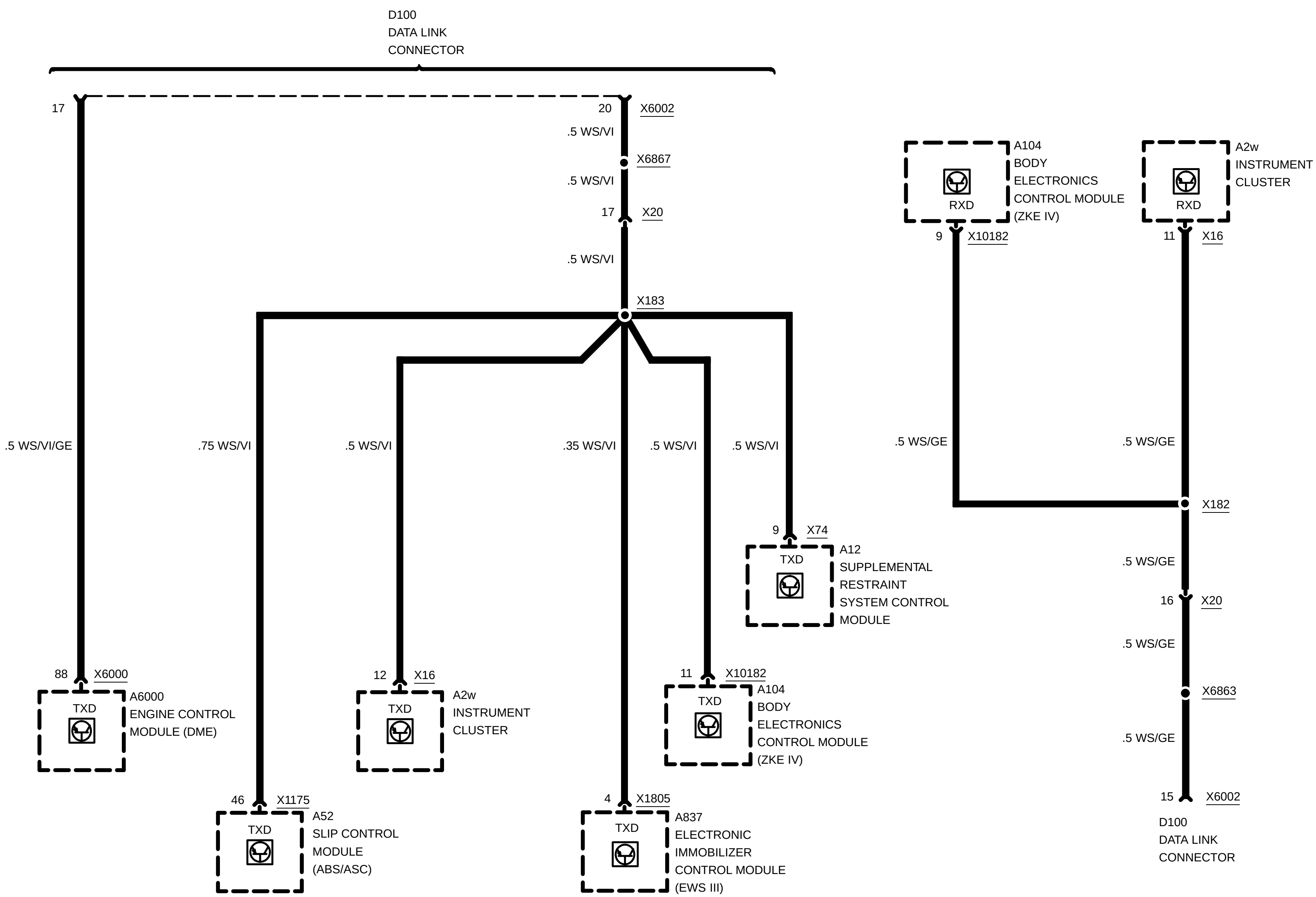
DATA LINK CONNECTOR, PINS 2 AND 19, AND OBD II CONNECTOR



DATA LINK

TXD AND RXD

M VERSIONS

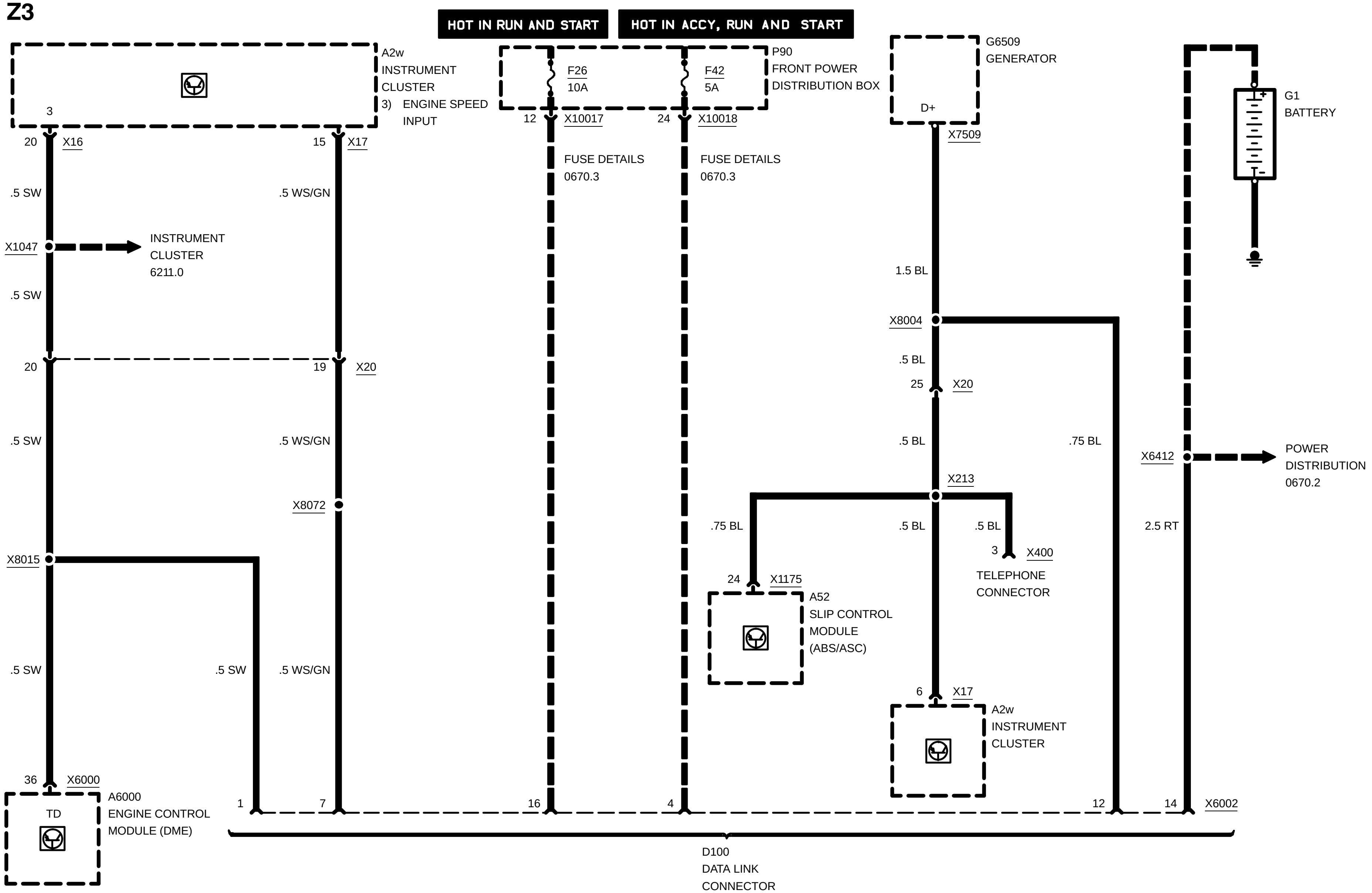


BMW 3 Z3

DATA LINK

M VERSIONS

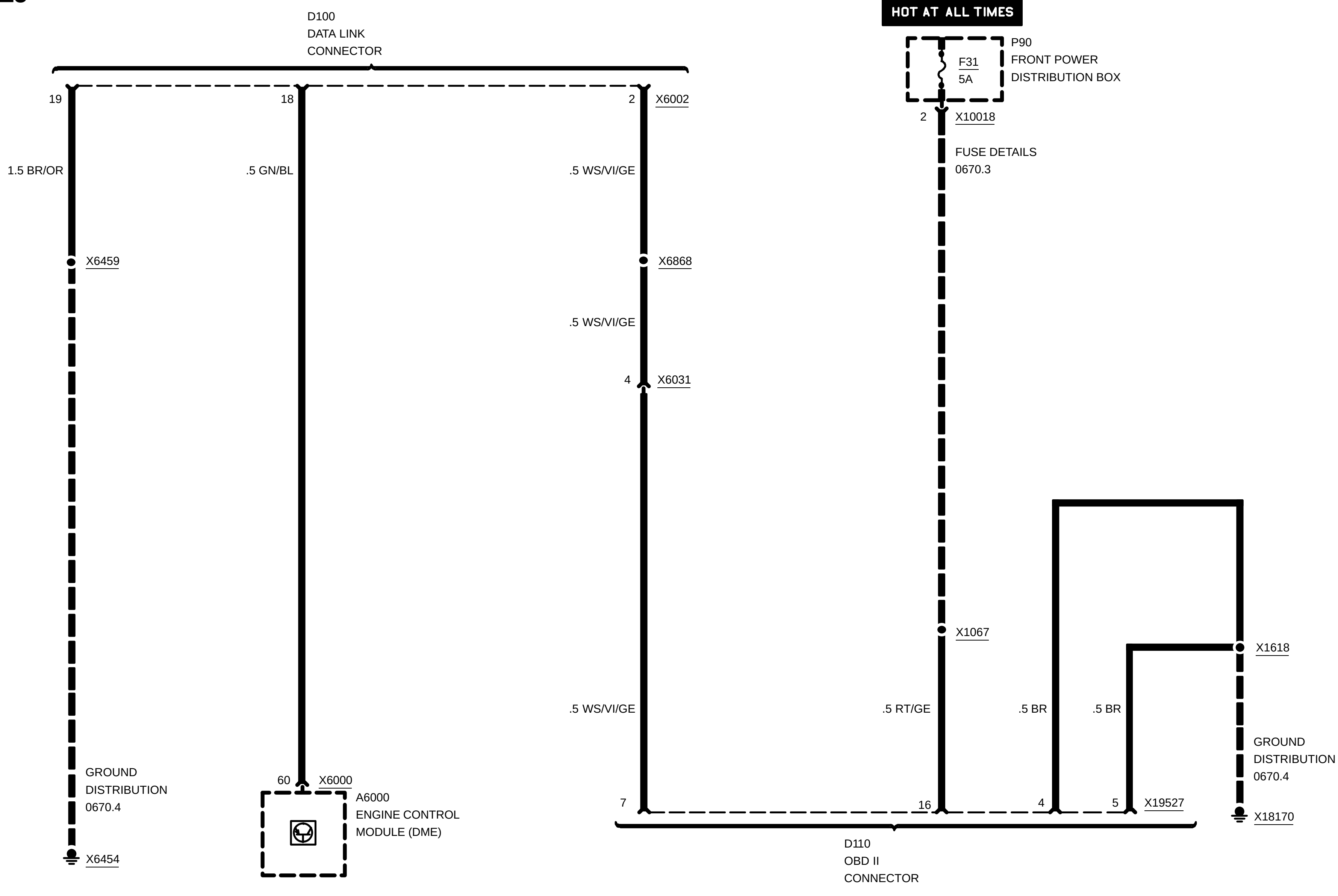
DATA LINK CONNECTOR, PINS 1, 7, 16, 4, 12, AND 14



DATA LINK

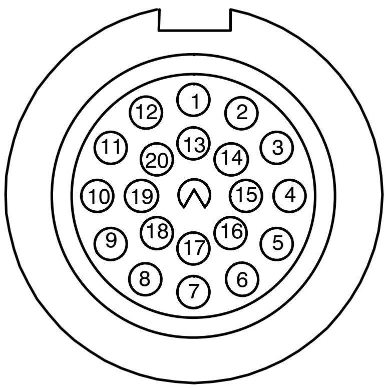
M VERSIONS

DATA LINK CONNECTOR, PINS 19, 18, 2, AND OBD II CONNECTOR

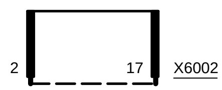


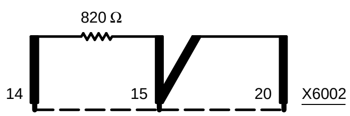
DATA LINK

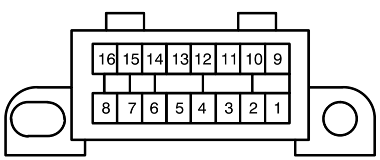
DATA LINK CONNECTOR (X6002)



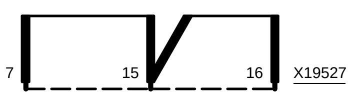
BRIDGES IN CAP
OF D100 DATA LINK
CONNECTOR







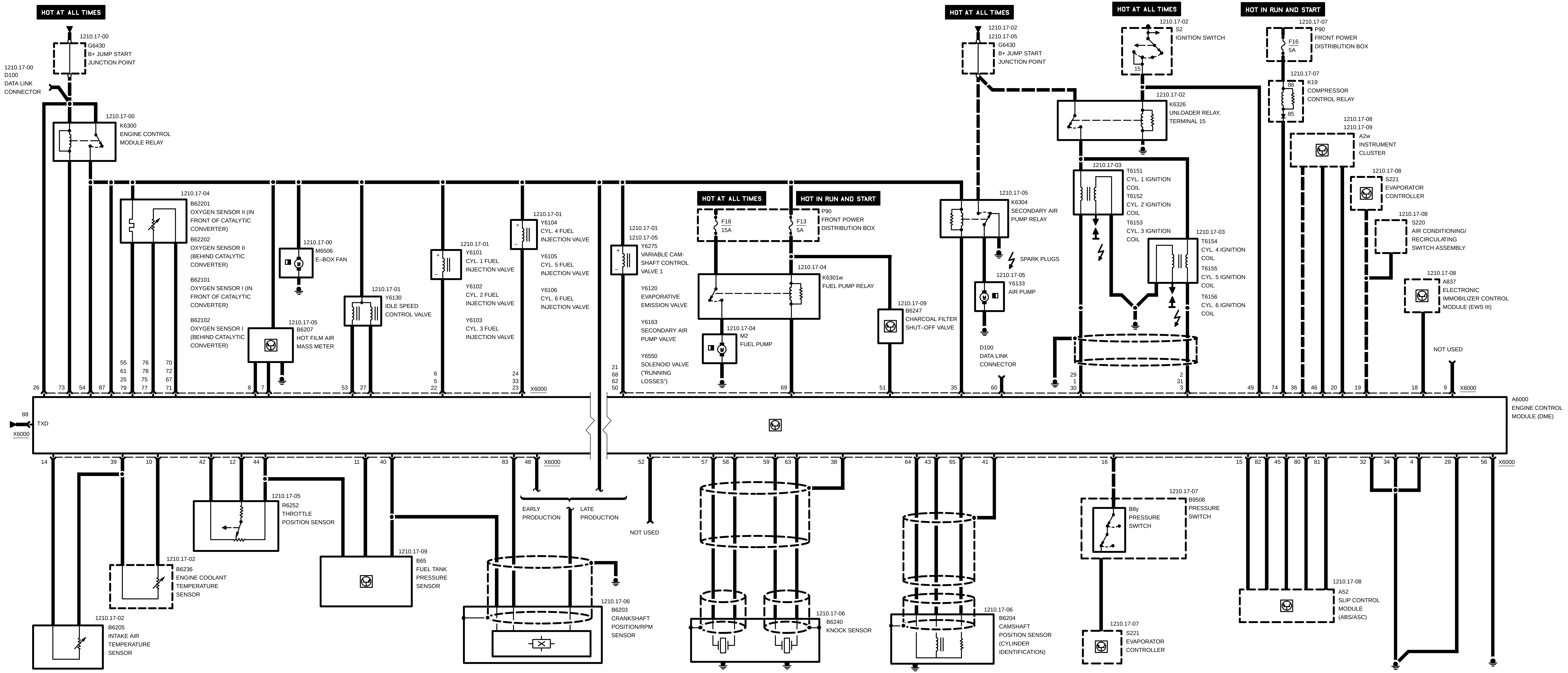
BRIDGE IN CAP OF
D110 OBD II
CONNECTOR



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
*4	R	VOLTAGE: HOT IN ACCY, RUN AND START	VI/GN
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
*12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD2	DIAGNOSTIC DATA LINK	WS/VI (*WS/VI/GE)
*18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR (*BR/OR)
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

* M VERSIONS

1210.17 ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)



Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	TI-measurement signal (fuel consumption)	Not used
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive away protection signal (code)	Electronic immobilizer control module (EWS III)
19	E	A/C-ON-signal	Air conditioning operating unit
20	A	“Check engine” indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor I (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	M	Ground	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	TI-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor (Early Production)
49	E	Terminal 15	Ignition switch
50	A	Running losses	Solenoid valve
51	A	Activate valve	Charcoal filter shut off valve
52		Not used	
53	A	Activate valve	Idle speed control valve
54	E	Battery voltage, terminal 87	Engine control module relay
55	M	Oxygen sensor heating ground	Oxygen sensor II (in front of catalytic converter)
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
59	E	Cyl. 4-6 knock sensor	Knock sensor
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor II (behind catalytic converter)
62	E	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	E	Camshaft position	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor I (in front of catalytic converter)
68	E	Activate valve	Evaporative emission valve
69	E	Activate relay	Fuel pump relay
70	M	Oxygen sensor signal ground	Oxygen sensor II (in front of catalytic converter)
71	M	Oxygen sensor signal ground	Oxygen sensor I (behind catalytic converter)
72	M	Oxygen sensor signal ground	Oxygen sensor II (behind catalytic converter)
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor I (in front of catalytic converter)
76	E	Sensor signal	Oxygen sensor II (in front of catalytic converter)
77	E	Sensor signal	Oxygen sensor I (behind catalytic converter)
78	E	Sensor signal	Oxygen sensor II (behind catalytic converter)
79	M	Oxygen sensor heating ground	Oxygen sensor I (behind catalytic converter)
80	A	ASC signal ZA	Slip control module ABS/ASC
81	A	ASC signal ZWV	Slip control module ABS/ASC
82	A	ASC signal MSR	Slip control module ABS/ASC
83	E	Sensor signal	Crankshaft position/RPM sensor

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
84		Not used	
85		Not used	
86		Not used	
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

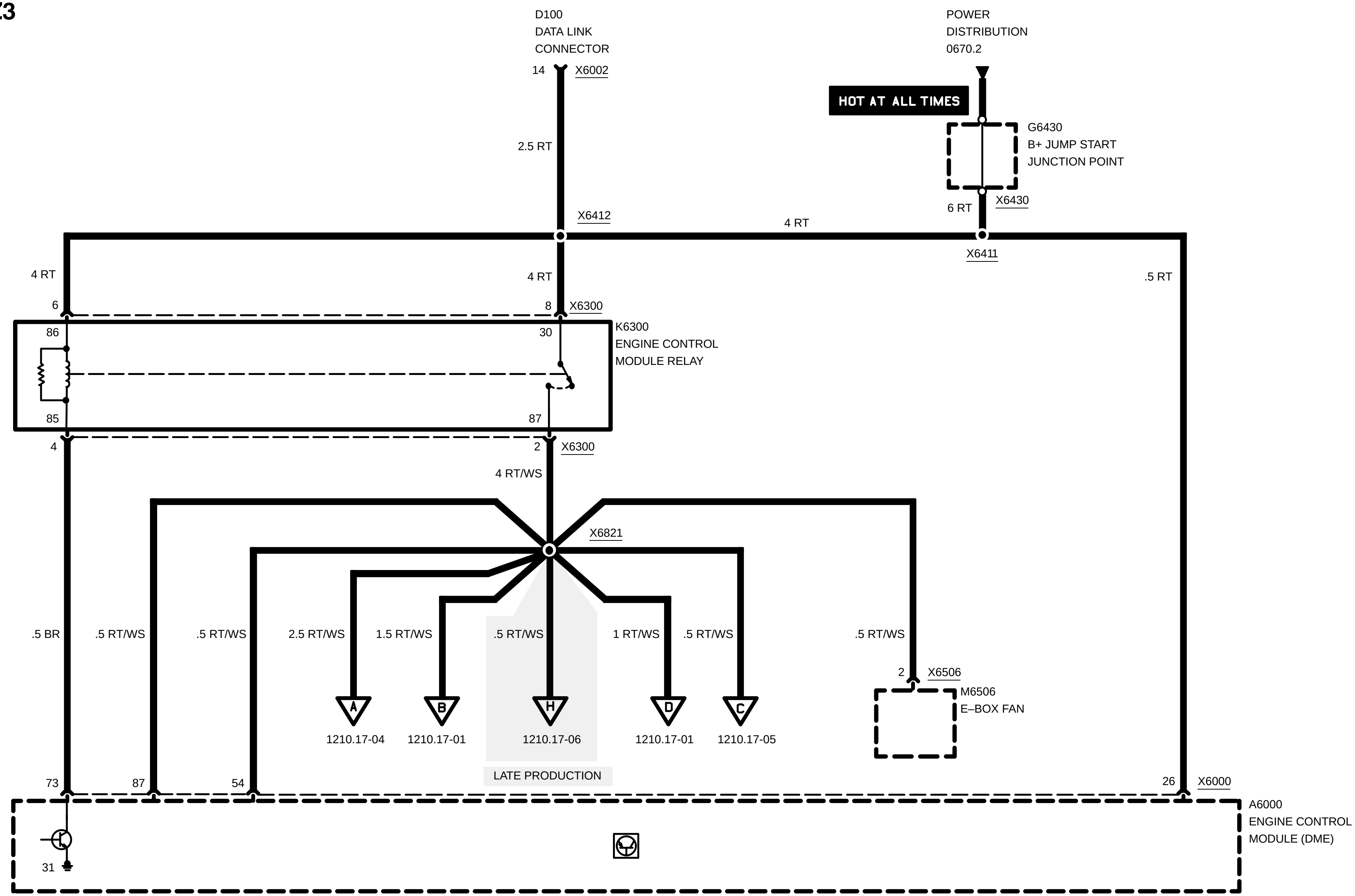
E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

M VERSIONS

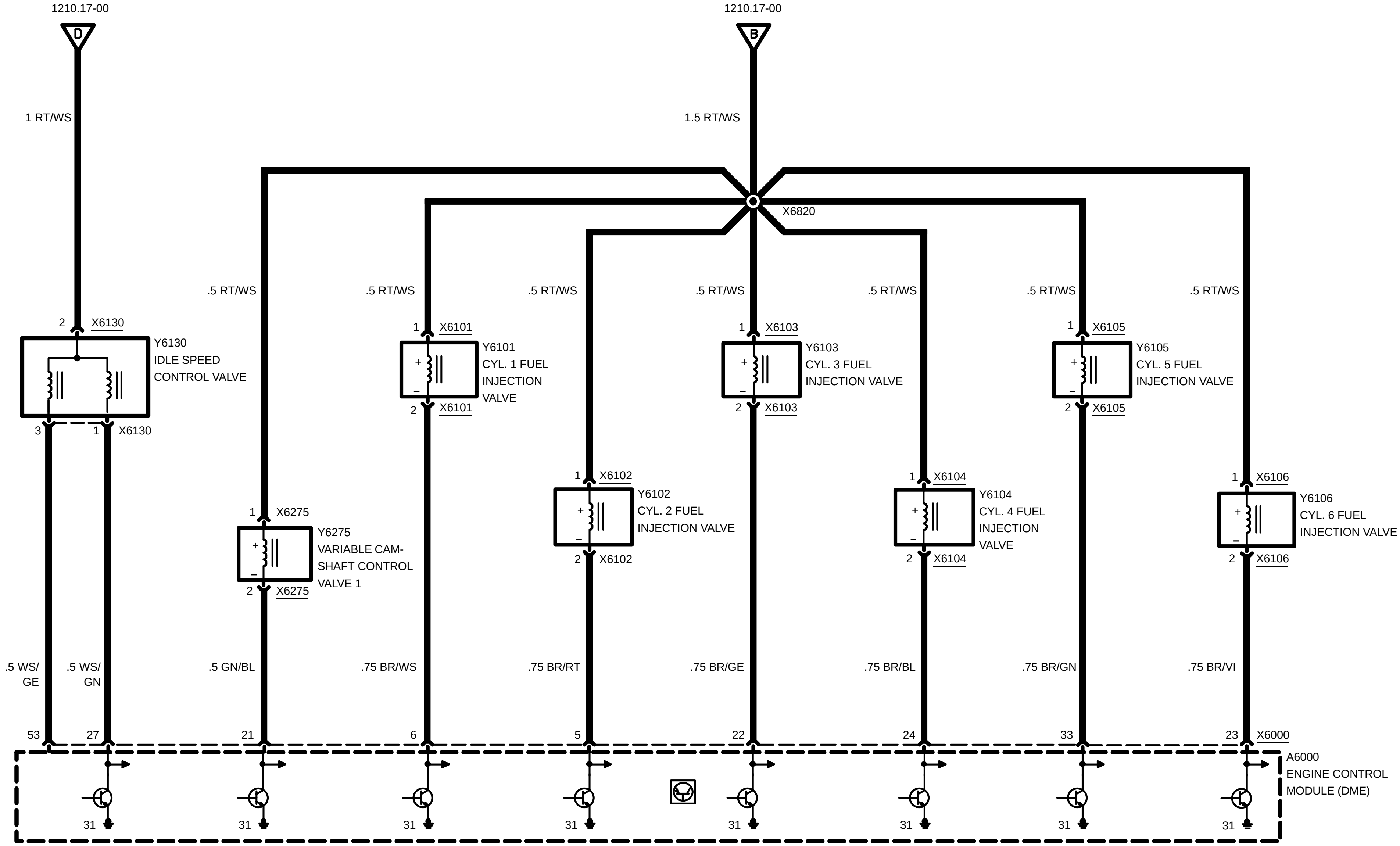
BMW 3 Z3

POWER



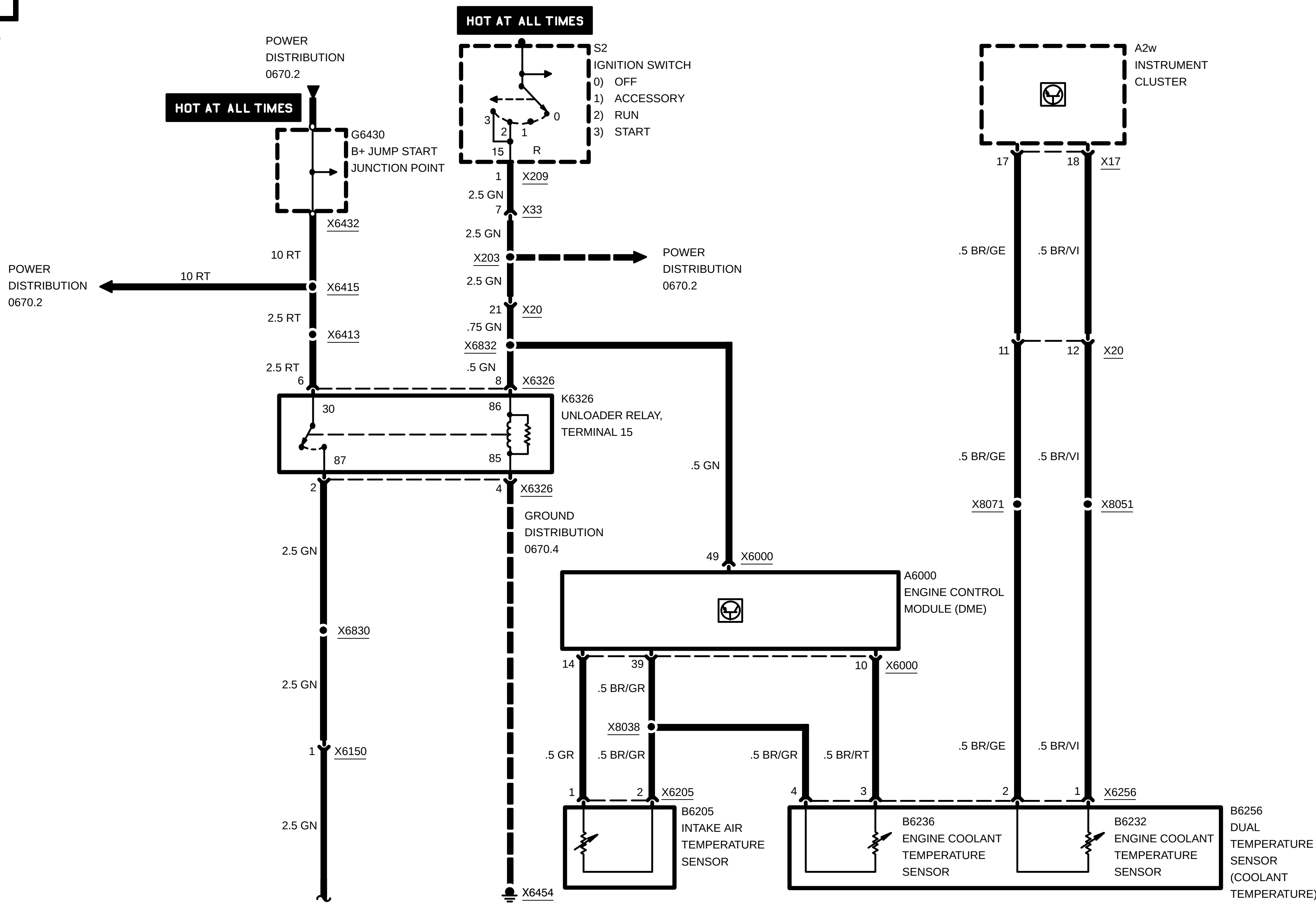
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

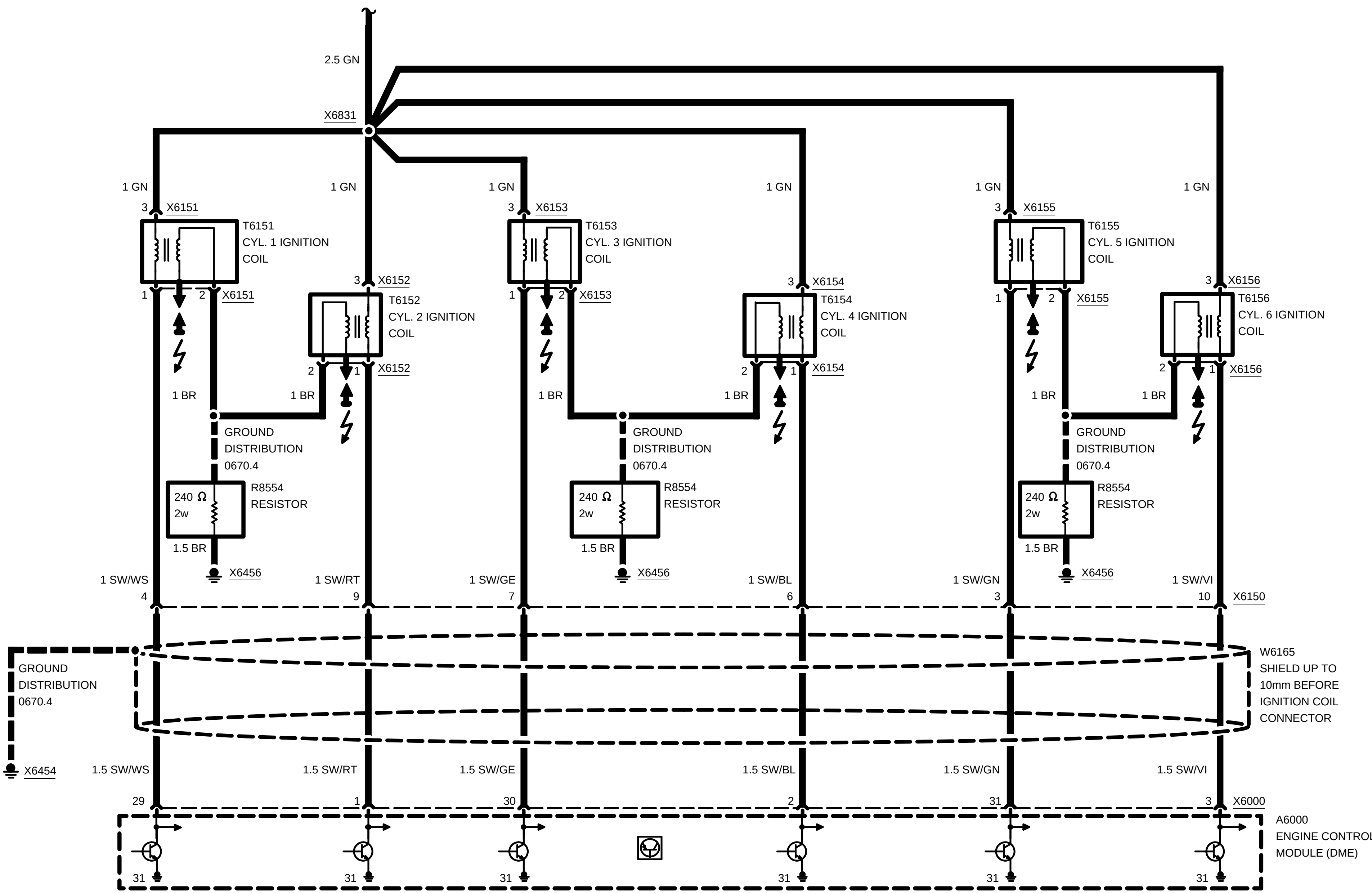
M VERSIONS



ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

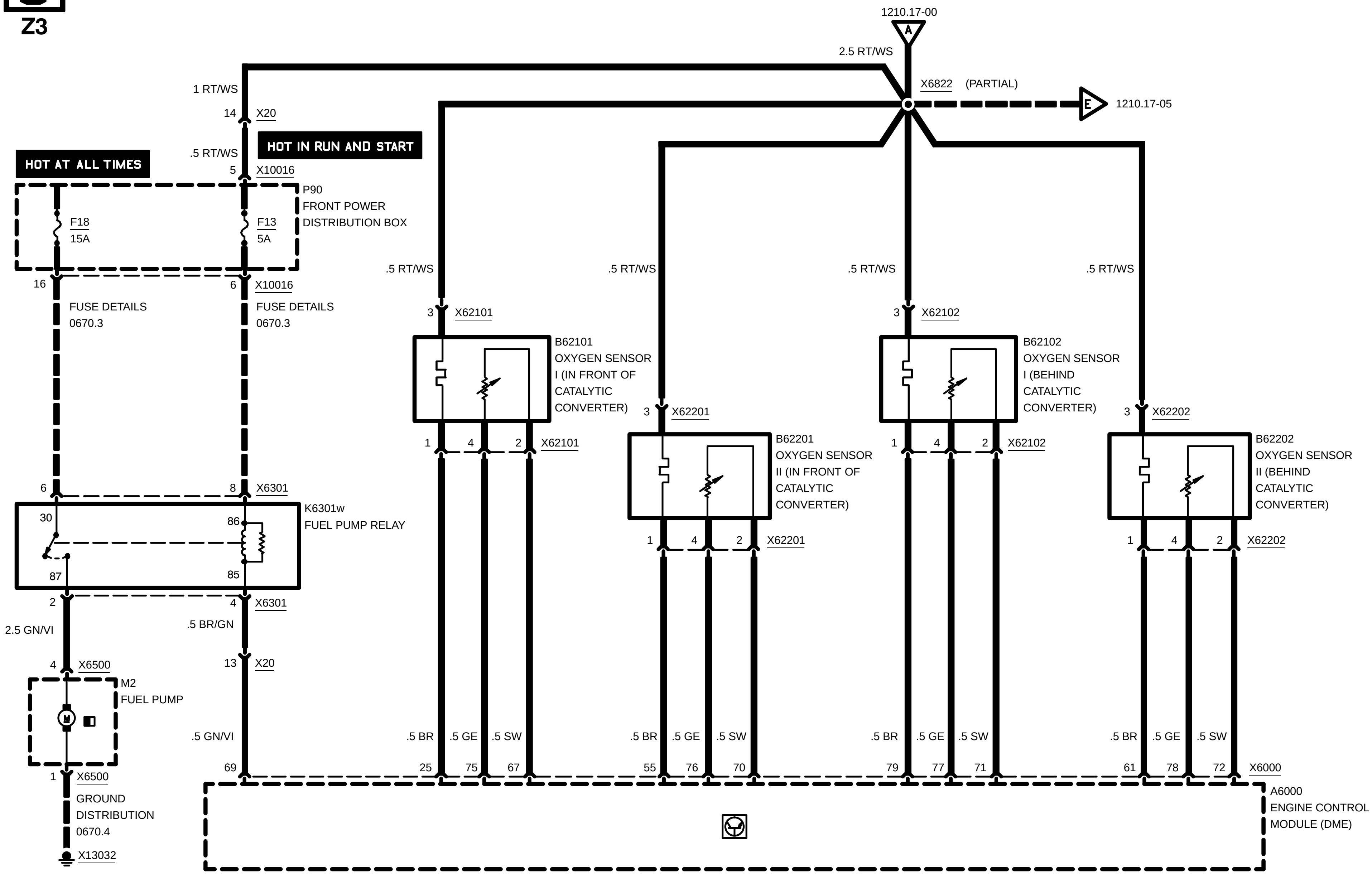
M VERSIONS




2.5 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
X6151
T6151
CYL. 1 IGNITION
COIL
X6152
T6152
CYL. 2 IGNITION
COIL
X6153
T6153
CYL. 3 IGNITION
COIL
X6154
T6154
CYL. 4 IGNITION
COIL
X6155
T6155
CYL. 5 IGNITION
COIL
X6156
T6156
CYL. 6 IGNITION
COIL
1 BR
GROUND
DISTRIBUTION
0670.4
240 Ω
2w
R8554
RESISTOR
1.5 BR
X6456
1 SW/WS
1 SW/RT
1 SW/GE
1 SW/BL
1 SW/GN
1 SW/VI
X6150
W6165
SHIELD UP TO
10mm BEFORE
IGNITION COIL
CONNECTOR
X6454
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

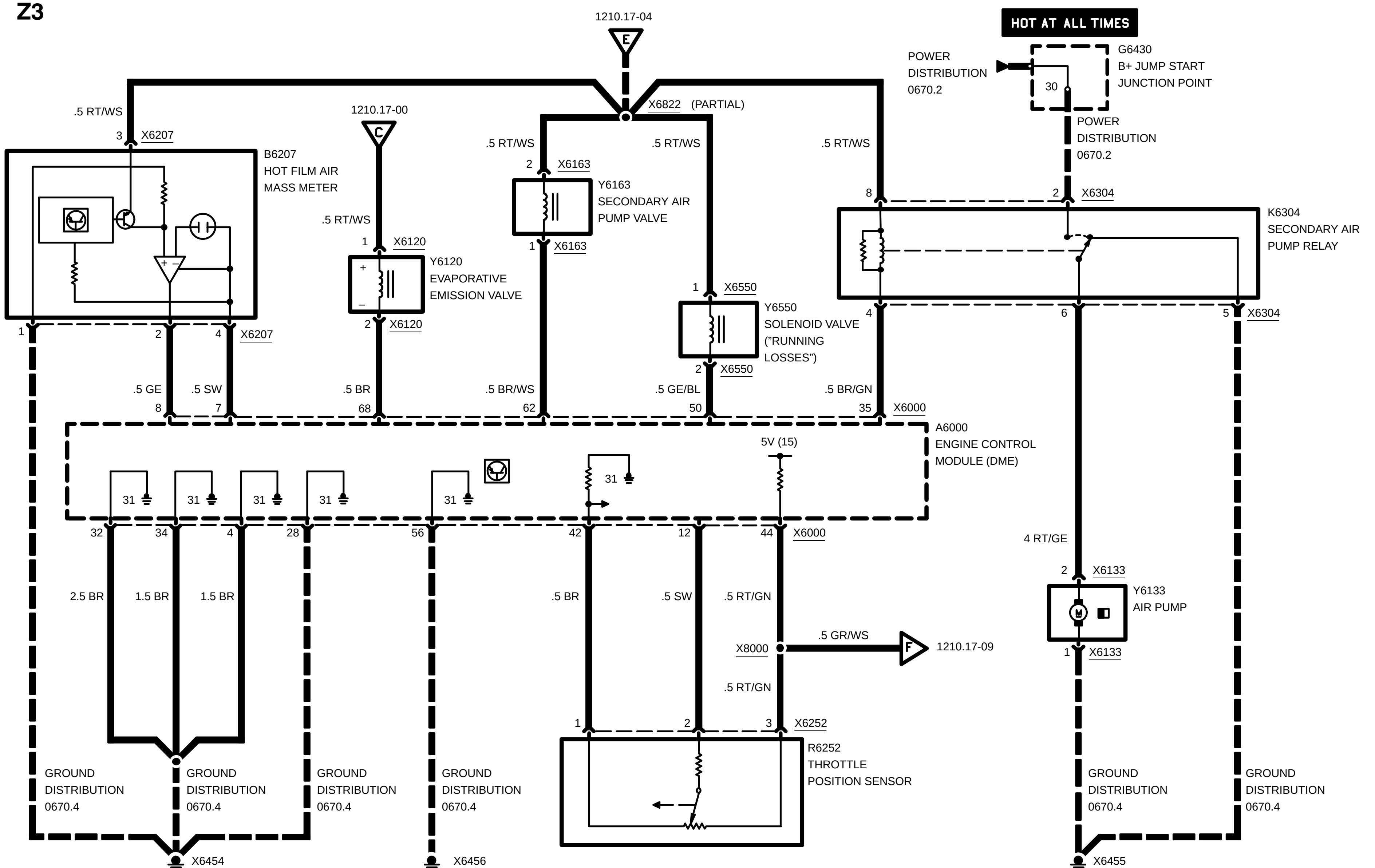
M VERSIONS



BMW 3 Z3

ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

M VERSIONS



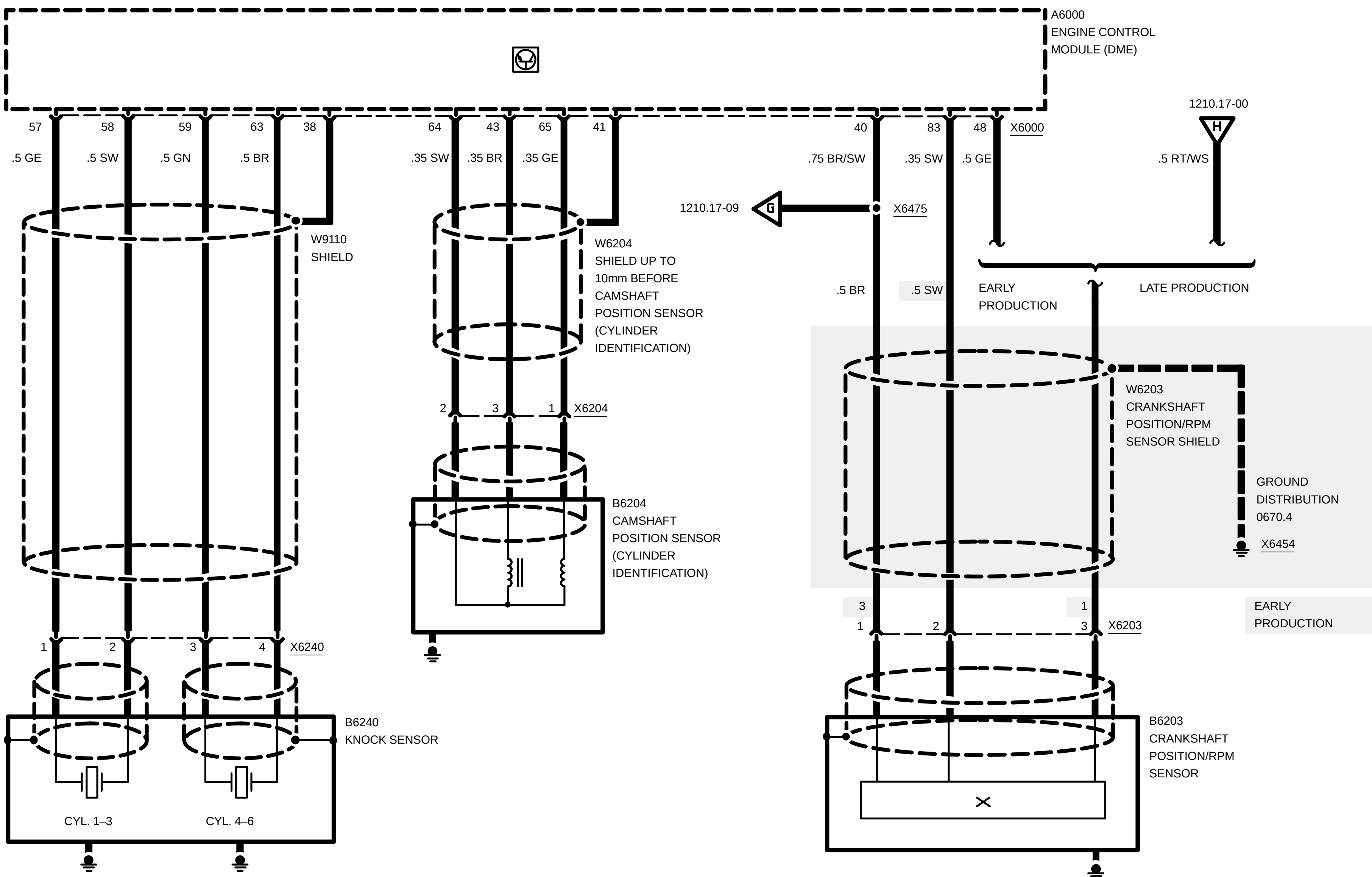
03/00

1210.17-05

1999

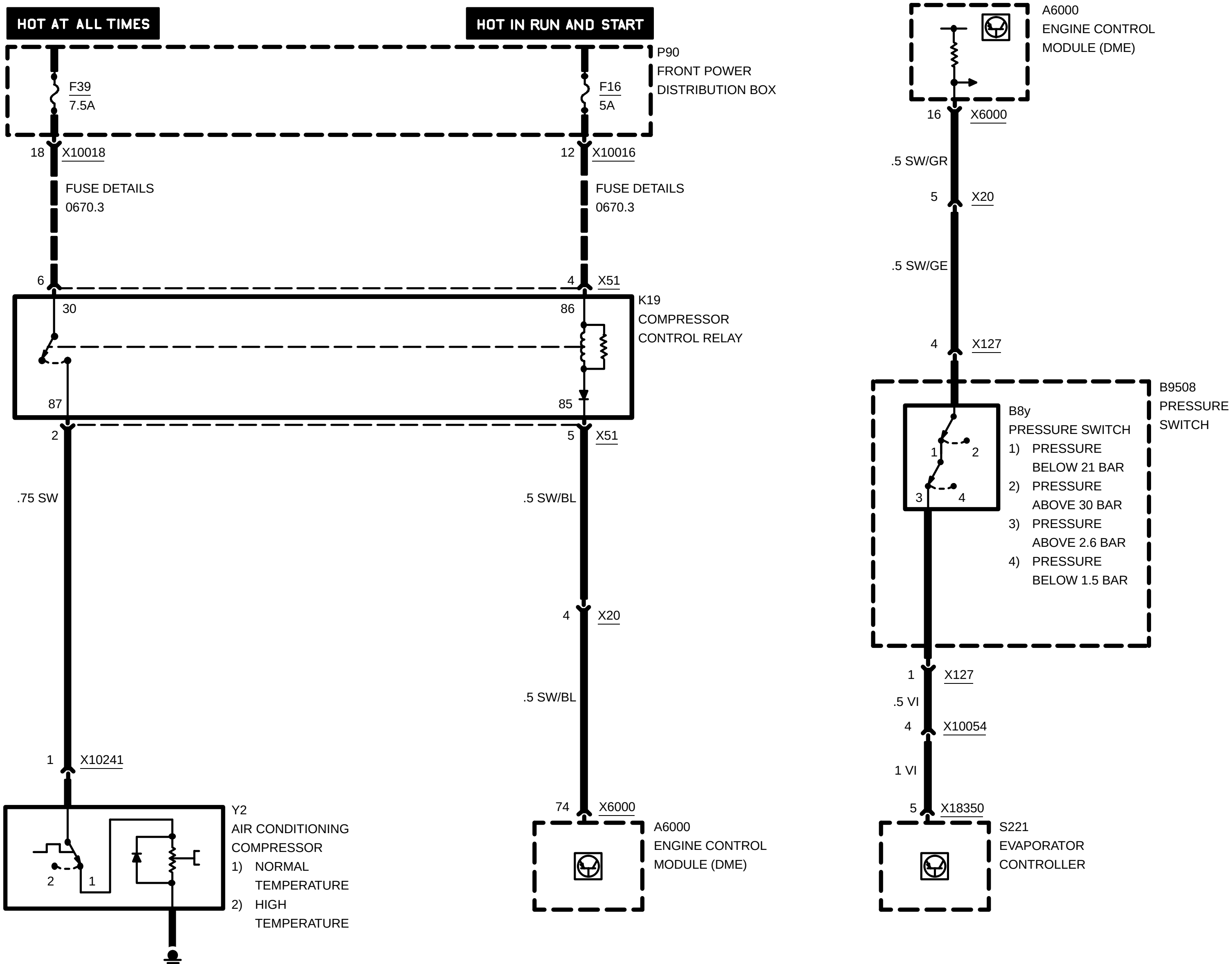
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

M VERSIONS



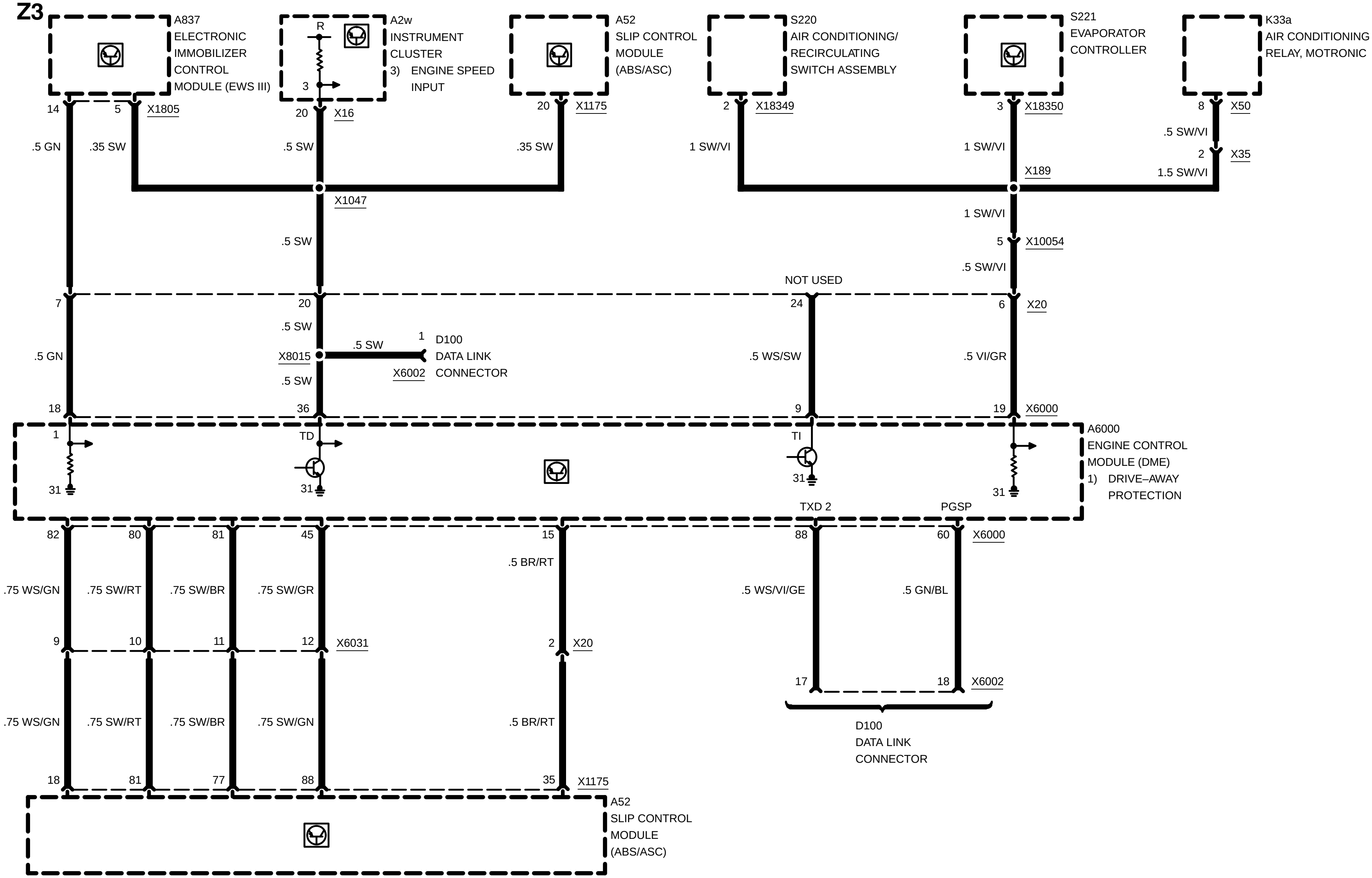
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

M VERSIONS



ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

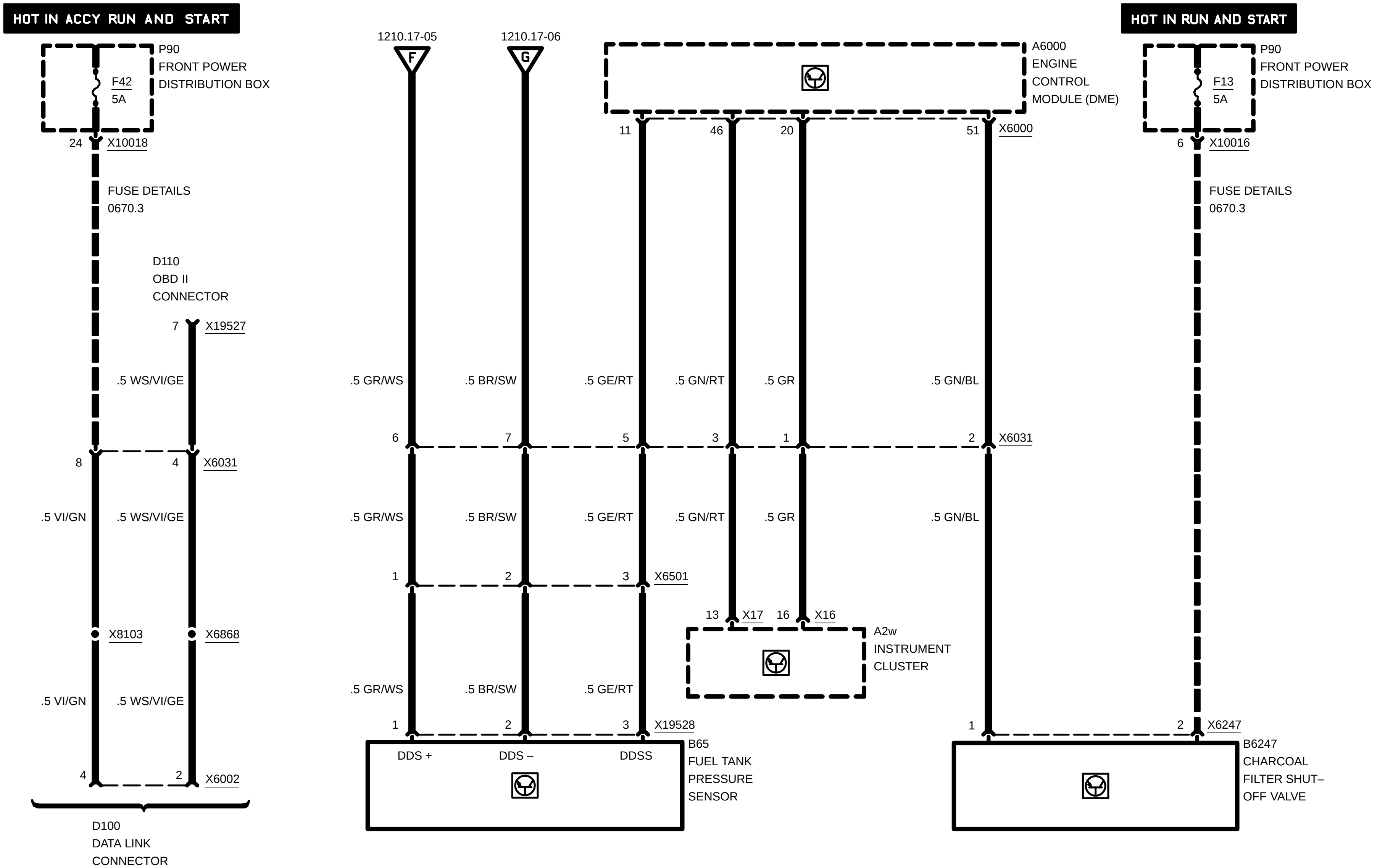
M VERSIONS



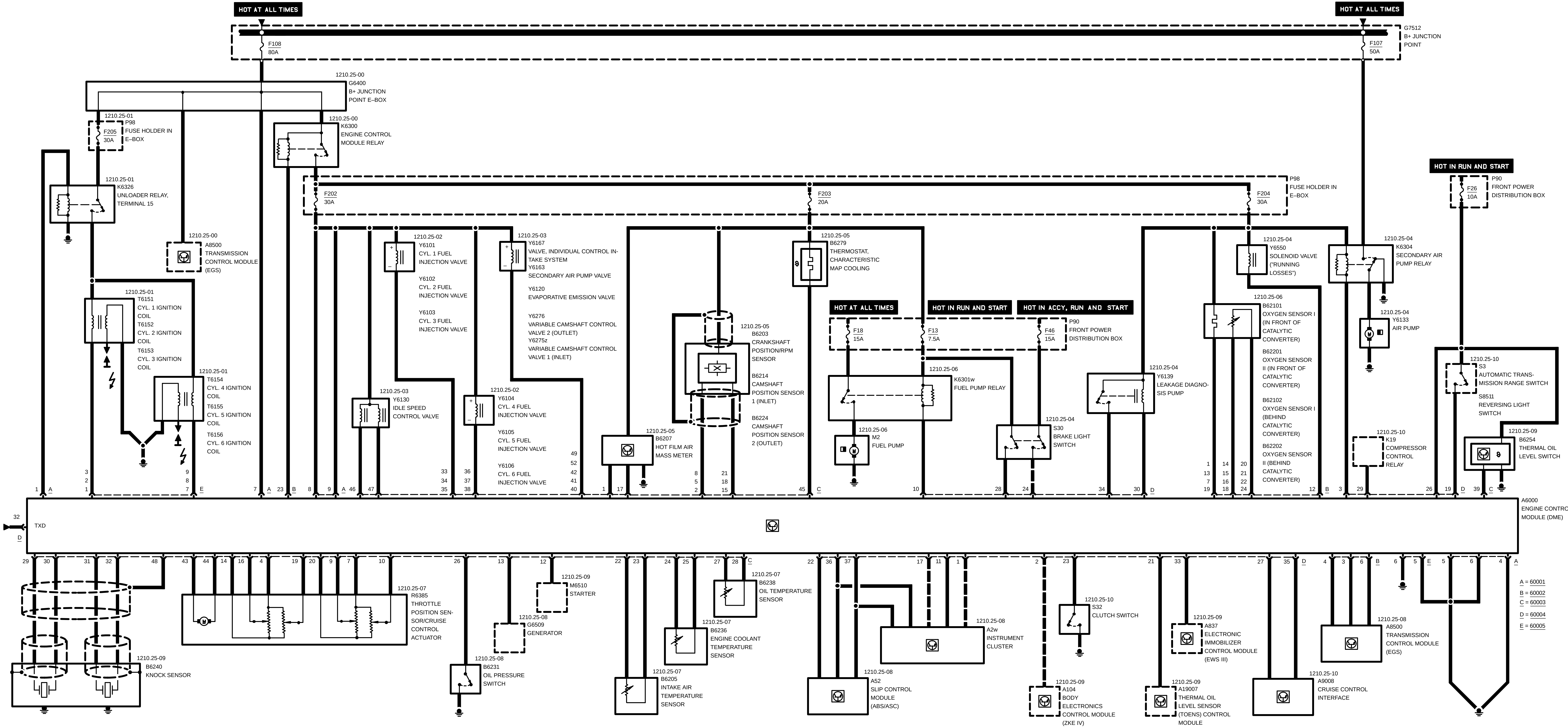
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER S52)

M VERSIONS

OBD II DIAGNOSIS



1210.25 ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)



Pin Assignments

A = X60001	9 Pins, black
B = X60002	24 Pins, black
C = X60003	52 Pins, black
D = X60004	40 Pins, black
E = X60005	9 Pins, black

X60001

Pin	Type	Signal	Description/Function	Connection
1	A	15	Activate relay	Unloader relay terminal 15
2			Not used	
3			Not used	
4	M	31E	Ground	Ground point
5	M	31L	Ground	Ground point
6	M	31L	Ground	Ground point
7	E	30	Voltage supply	B+ junction point E-box
8	E	U_HR<2	Voltage supply	Fuse holder in E-box
9	E	U_HR<2	Voltage supply	Fuse holder in E-box

X60002

Pin	Type	Signal	Description/Function	Connection
1	M	T_LHV1	Oxygen sensor heating ground	Oxygen sensor 1 (in front of catalytic converter)
2			Not used	
3	E/A	D_CAN-L	CAN bus low	Transmission control module (EGS)
4	E/A	D_CAN-H	CAN bus high	Transmission control module (EGS)
5			Not used	
6	E/A	D_TXD2	Diagnosis	Transmission control module (EGS)
7	M	T_LHH1	Oxygen sensor heating ground	Oxygen sensor 1 (behind catalytic converter)
8			Not used	

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Signal	Description/Function	Connection
9			Not used	
10			Not used	
11			Not used	
12	A	S_KKU	Activate valve	Solenoid valve (Running Losses)
13	M	T_LHV2	Oxygen sensor heating ground	Oxygen sensor 2 (in front of catalytic converter)
14	E	A_LSV1	Sensor signal	Oxygen sensor 1 (in front of catalytic converter)
15	E	A_LSV2	Sensor signal	Oxygen sensor 2 (in front of catalytic converter)
16	E	A_LSH1	Sensor signal	Oxygen sensor 1 (behind catalytic converter)
17			Not used	
18	E	A_LSH2	Sensor signal	Oxygen sensor 2 (behind catalytic converter)
19	M	T_LHH2	Oxygen sensor heating ground	Oxygen sensor 2 (behind catalytic converter)
20	M	M_LSV1	Signal ground	Oxygen sensor 1 (in front of catalytic converter)
21	M	M_LSV2	Signal ground	Oxygen sensor 2 (in front of catalytic converter)
22	M	M_LSH1	Signal ground	Oxygen sensor 1 (behind catalytic converter)
23	A	S_HR	Activate relay	Engine control module relay
24	M	M_LSH2	Signal ground	Oxygen sensor 2 (behind catalytic converter)

X60003

Pin	Type	Signal	Description/Function	Connection
1	E	A_HFM	Signal air mass meter	Hot film air mass meter
2	E	P_NWGA1	Signal camshaft position	Camshaft position sensor 2 (outlet)
3			Not used	
4	A	U_DKFW1	Voltage supply	Throttle position sensor 1

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Signal	Description/Function	Connection
5	E	P_NWGE1	Signal camshaft position	Camshaft position sensor 1 (inlet)
6			Not used	
7	A	U_DKFW2	Voltage supply	Throttle position sensor 2
8	E	P_KWG	Signal crankshaft position	Crankshaft position sensor
9	E	A_FWG2	Throttle position signal	Throttle position sensor 2
10	E	A_DKG2	Throttle position signal	Throttle position sensor 2
11			Not used	
12	E	S_30H	Start signal	Starter
13	E	S_61-1	Charging signal	Generator
14	M	M_DKFW1	Ground	Throttle position sensor 1
15	M	M_NWGA1	Ground	Camshaft position sensor 2 (outlet)
16	E	A_FWG1	Throttle position signal	Throttle position sensor 1
17	M	M_HFM	Ground	Hot film air massmeter
18	M	M_NWGE1	Ground	Crankshaft position sensor 1 (inlet)
19	E	A_DKG1	Throttle position signal	Throttle position sensor 1
20	M	M_DKFW2	Ground	Throttle position sensor 2
21	M	M_KWG	Ground	Crankshaft position sensor
22	E	A_TANS	Temperature signal	Intake air temperature sensor
23	M	M_TANS	Ground	Intake air temperature sensor
24	E	A_TMOT	Temperature signal	Engine coolant temperature sensor
25	M	M_TMOT	Ground	Engine coolant temperature sensor
26	E	A_OLD	Pressure signal	Oil pressure switch
27	E	A_TOEL	Temperature signal	Oil temperature sensor
28	M	M_TOEL	Ground	Oil temperature sensor
29	E	A_KS1A	Cyl. 1-3 knock sensor	Knock sensor
30	E	A_KS1B	Cyl. 1-3 knock sensor	Knock sensor
31	E	A_KS2A	Cyl. 4-6 knock sensor	Knock sensor
32	E	A_KS2B	Cyl. 4-6 knock sensor	Knock sensor
33	A	P_EVZ1	Activate valve	Cyl. 1 fuel injection valve
34	A	P_EVZ2	Activate valve	Cyl. 2 fuel injection valve
35	A	P_EVZ3	Activate valve	Cyl. 3 fuel injection valve
36	A	P_EVZ4	Activate valve	Cyl. 4 fuel injection valve

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Signal	Description/Function	Connection
37	A	P_EVZ5	Activate valve	Cyl. 5 fuel injection valve
38	A	P_EVZ6	Activate valve	Cyl. 6 fuel injection valve
39	E	F_OLN	Level signal	Oil level sensor
40	A	T_NWE1	Activate valve	Variable camshaft control valve 1 (inlet)
41	A	T_NWA1	Activate valve	Variable camshaft control valve 2 (outlet)
42	A	T_TEV	Activate valve	Evaporative emission valve
43	A	T_MDK1	Activate motor	Cruise control actuator
44	A	T_MDK2	Activate motor	Cruise control actuator
45	A	S_KFK	Cooling signal	Thermostat, characteristic map cooling
46	A	T_LLFSS	CLOSE signal	Idle speed control valve
47	A	T_LLFSO	OPEN signal	Idle speed control valve
48	M	W_KS	Ground	Shield knock sensor
49	A	S_DISA	Activate valve	Valve, individual control intake system
50			Not used	
51			Not used	
52	A	S_SLPV	Activate valve	Secondary air pump valve

X60004

Pin	Type	Signal	Description/Function	Connection
1	A	61	Charging signal	Instrument cluster
2	A	30H	Start signal	Body electronics control module (ZKE IV)
3	A	S_SLP	Activate relay	Secondary air pump relay
4			Not used	
5			Not used	
6			Not used	
7			Not used	
8			Not used	

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Signal	Description/Function	Connection
9			Not used	
10	A	EKP	Activate relay	Fuel pump relay
11	A	OELD	Oil pressure signal	Instrument cluster
12			Not used	
13			Not used	
14			Not used	
15			Not used	
16			Not used	
17	A	TD	Crankshaft RPM speed signal TD	Instrument cluster
18			Not used	
19	E	RFL	Reverse signal	Reversing light switch/ Automatic transmission range switch
20			Not used	
21	A	A-OELN	Oil level signal	Thermal oil level sensor (TOENS) control module
22	E	DFAHR	Speed signal right rear	ABS/ASC control module
23	E	KUPP	Clutch signal	Clutch switch
24	E	KL 54 ON	Brake signal	Brake light switch
25			Not used	
26	E	15A26	Terminal 15	Fuse 26
27	E	MFL	Cruise control signal	Cruise control interface
28	E	S_BLTS	Brake signal	Brake light switch
29	A	S_KOREL	Activate relay	Compressor control relay
30	A	LDPV	Activate valve	Leakage diagnosis pump
31			Not used	
32	E/A	TXDII	TXD diagnosis data link	Data link connector
33	E	S_DWA	Drive-away protection signal (code)	Electronic immobilizer control module (EWS III)
34	E	LDPS	Leakage signal	Leakage diagnosis pump
35	M	31	Ground	Cruise control interface
36	E/A	CAN+	CAN bus high	Instrument cluster, ABS/ASC control module

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Signal	Description/Function	Connection
37	E/A	CAN–	CAN bus low	Instrument cluster, ABS/ASC control module
38			Not used	
39			Not used	
40			Not used	

X60005

Pin	Type	Signal	Description/Function	Connection
1	A	P_ZSZ3	Ignition coil signal	Cyl. 3 ignition coil
2	A	P_ZSZ2	Ignition coil signal	Cyl. 2 ignition coil
3	A	P_ZSZ1	Ignition coil signal	Cyl. 1 ignition coil
4			Not used	
5	M	31L	Ground	Ground point
6	M	A_ZSR	Ground	Ground point
7	A	P_ZSZ6	Ignition coil signal	Cyl. 6 ignition coil
8	A	P_ZSZ5	Ignition coil signal	Cyl. 5 ignition coil
9	A	P_ZSZ4	Ignition coil signal	Cyl. 4 ignition coil

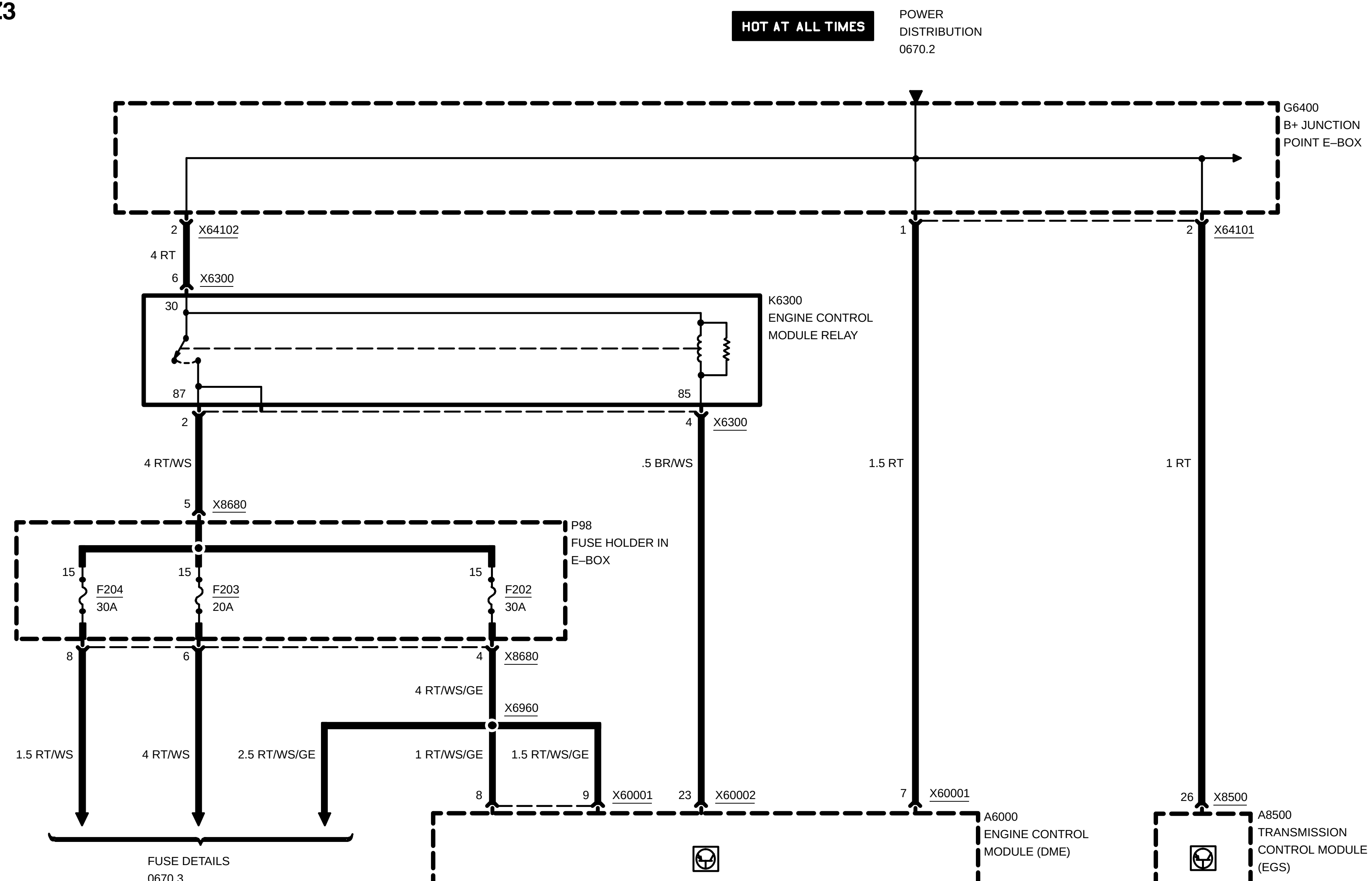
E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS

POWER

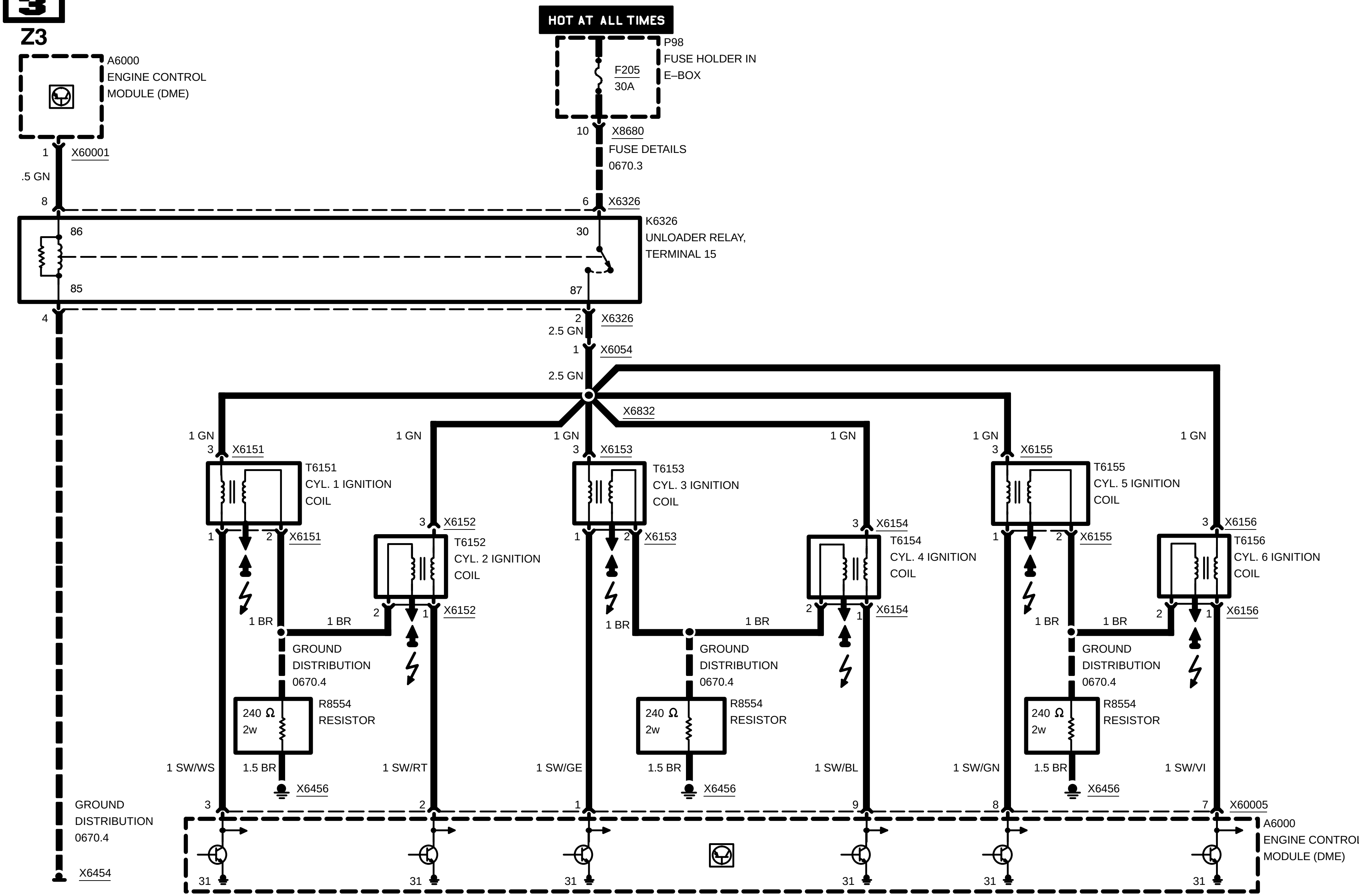
BMW 3 Z3

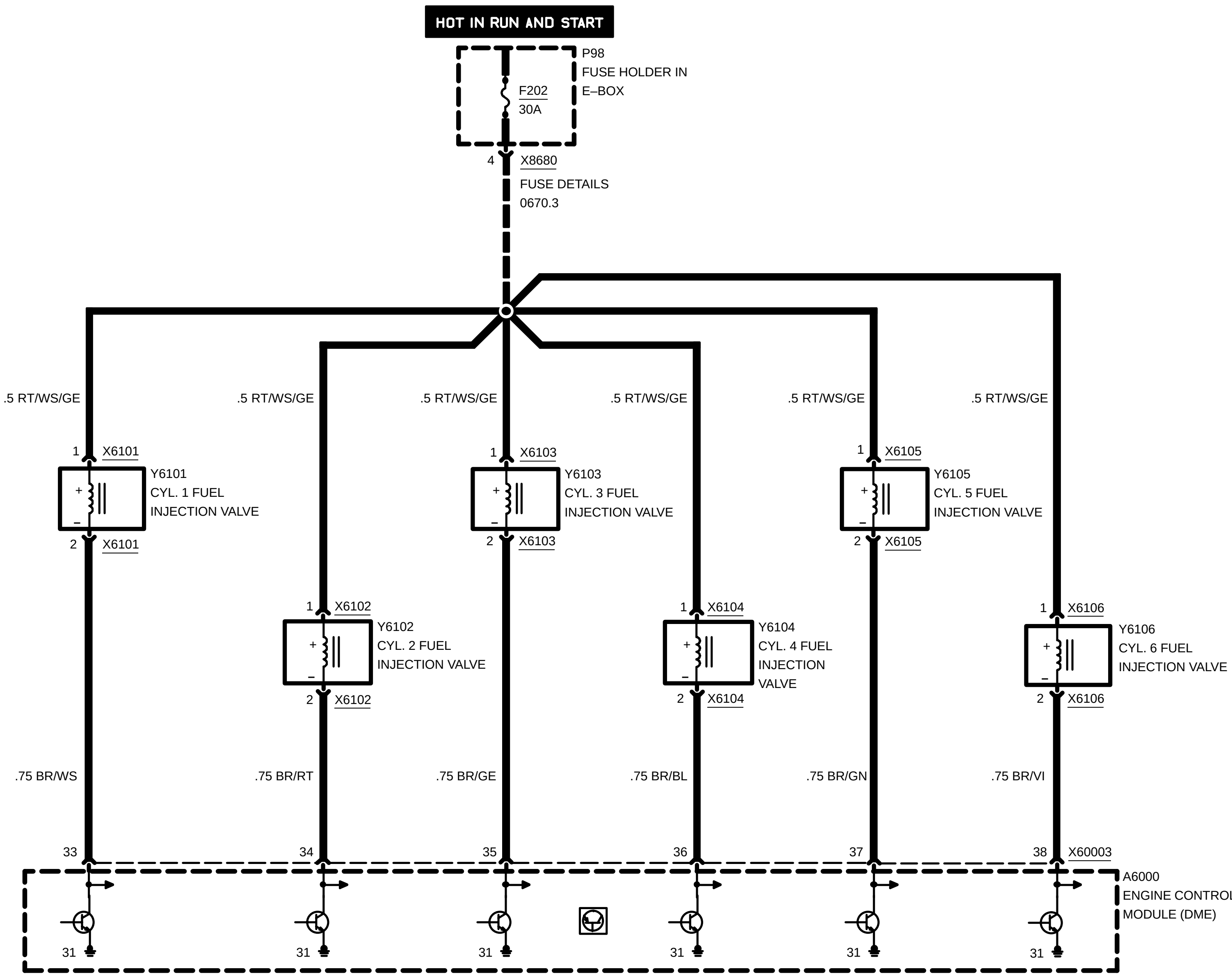


ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS

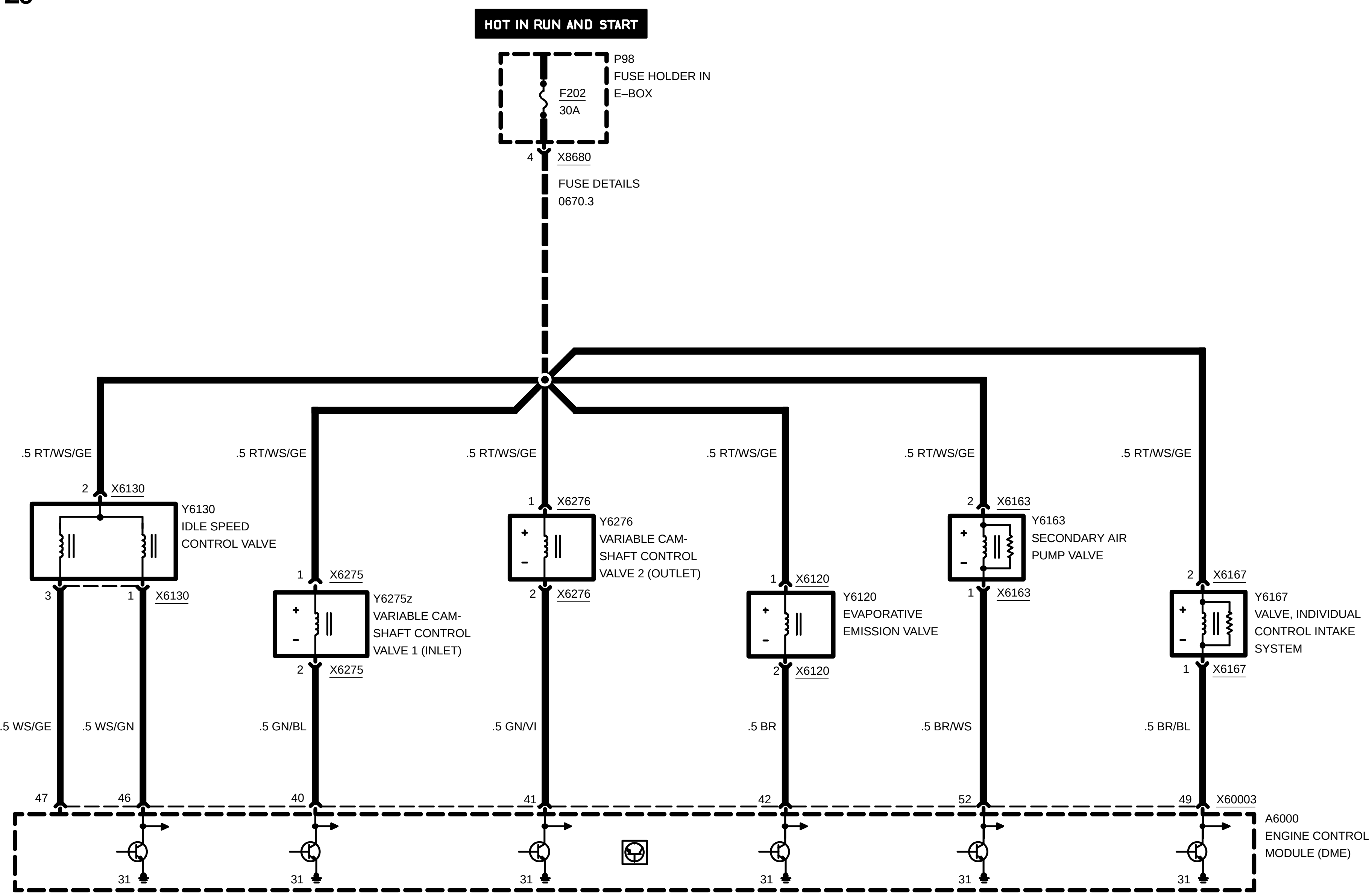
Z3




HOT IN RUN AND START
P98
FUSE HOLDER IN
E–BOX
F202
30A
4 X8680
FUSE DETAILS
0670.3
.5 RT/WS/GE
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
1 X6104
Y6104
CYL. 4 FUEL
INJECTION
VALVE
2 X6104
1 X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
2 X6105
1 X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
2 X6106
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
33
34
35
36
37
38 X60003
A6000
ENGINE CONTROL
MODULE (DME)
31

ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

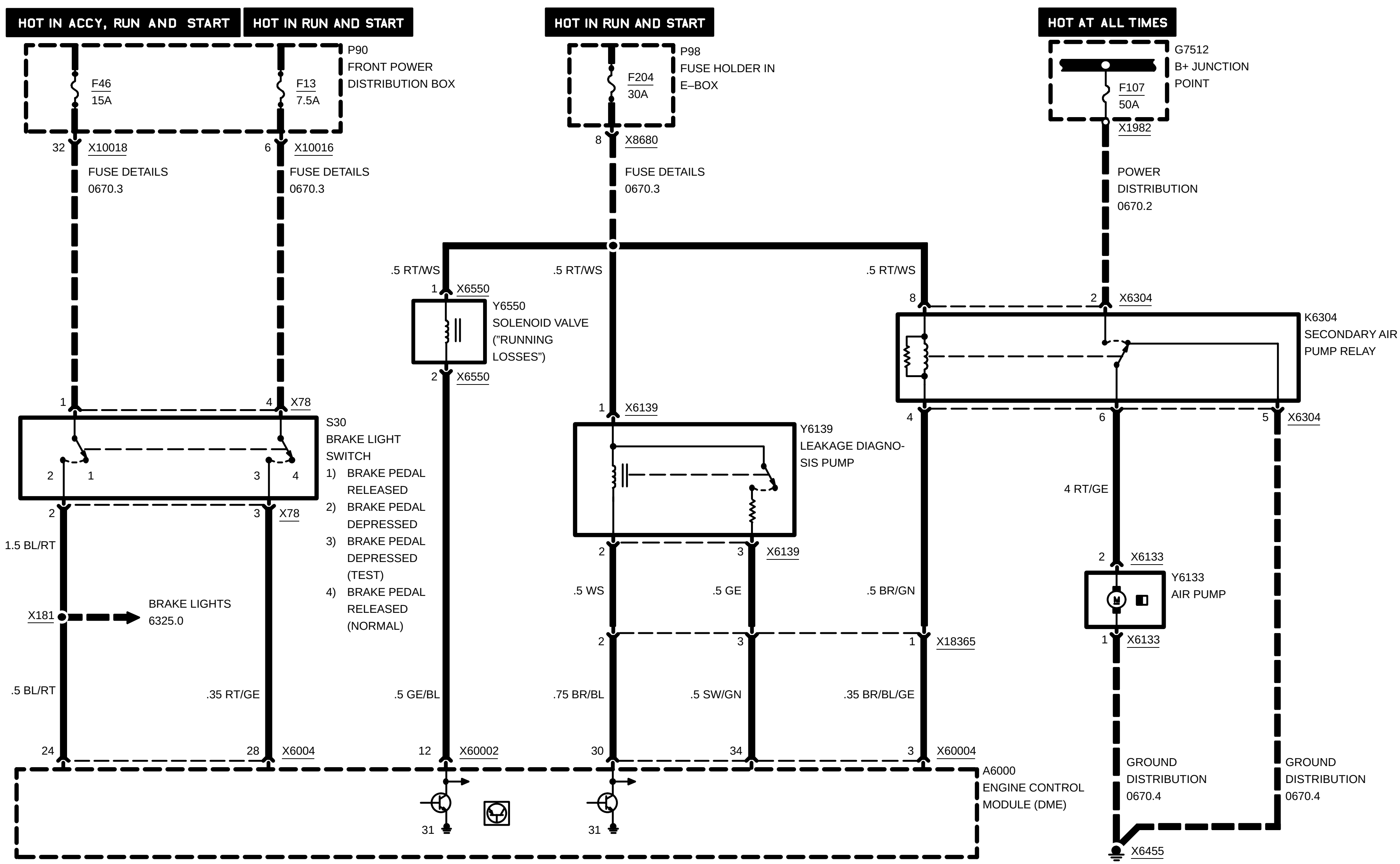
Z3 VERSIONS



BMW 3 Z3

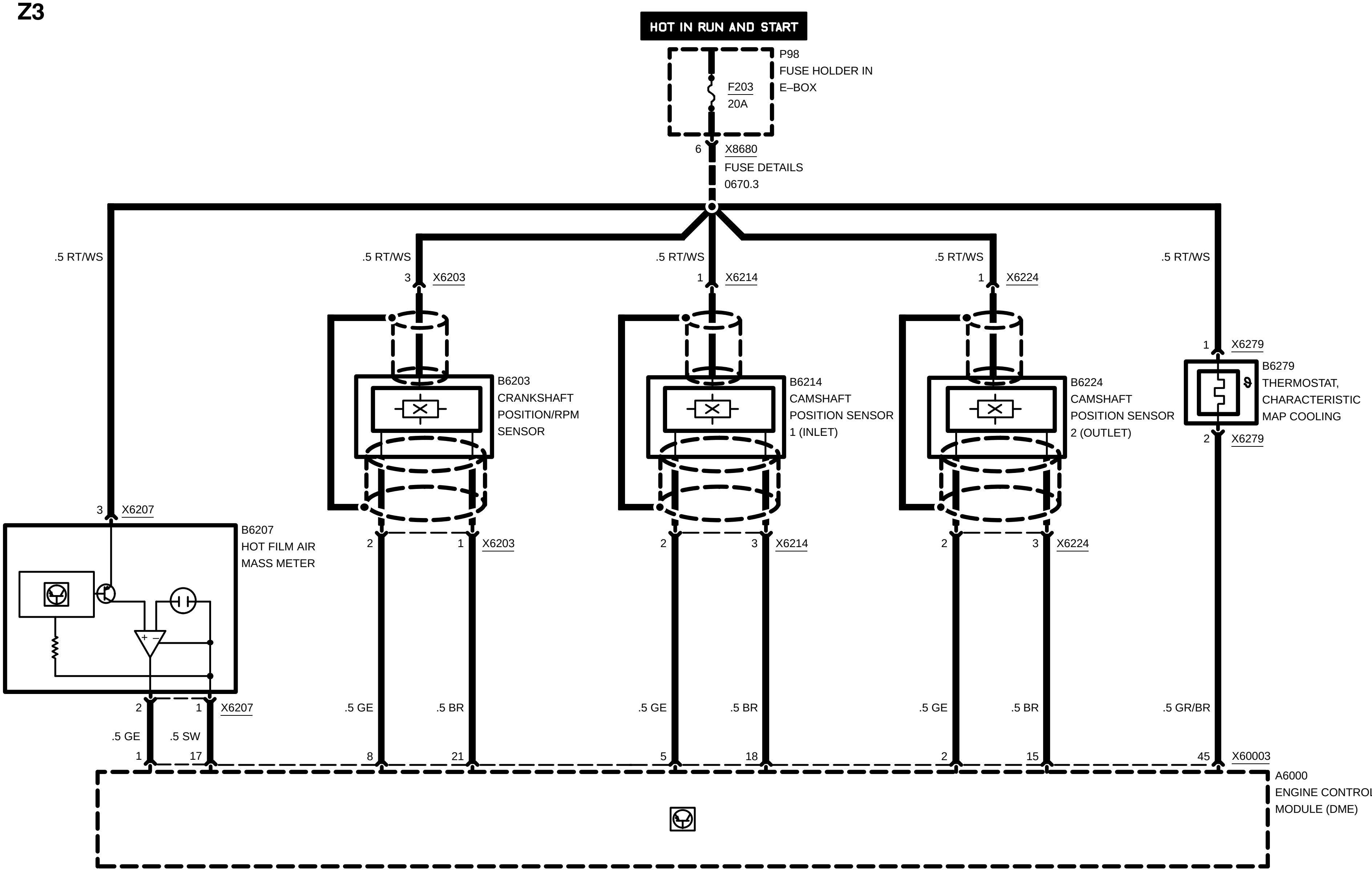
ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS



ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS

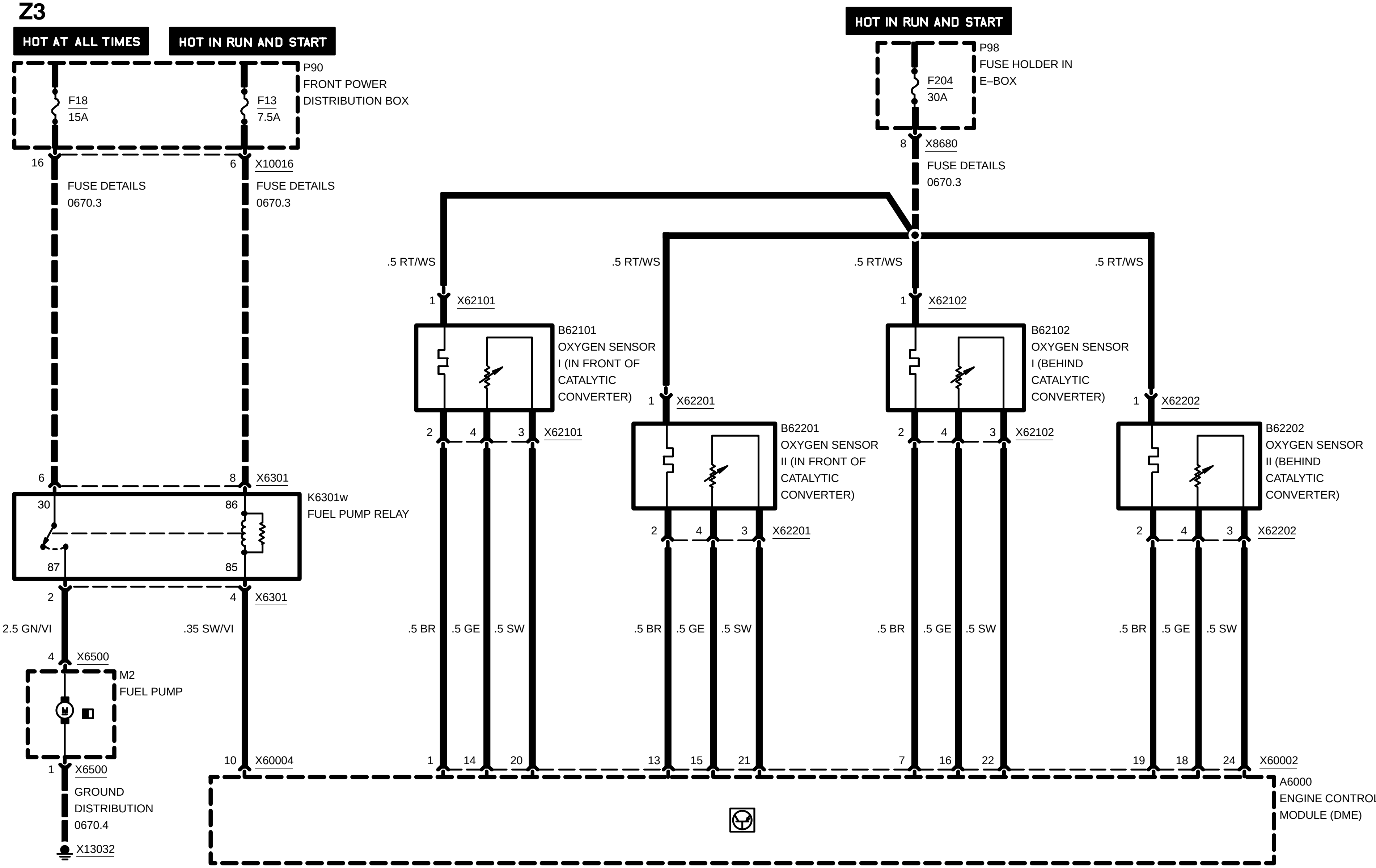


ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS

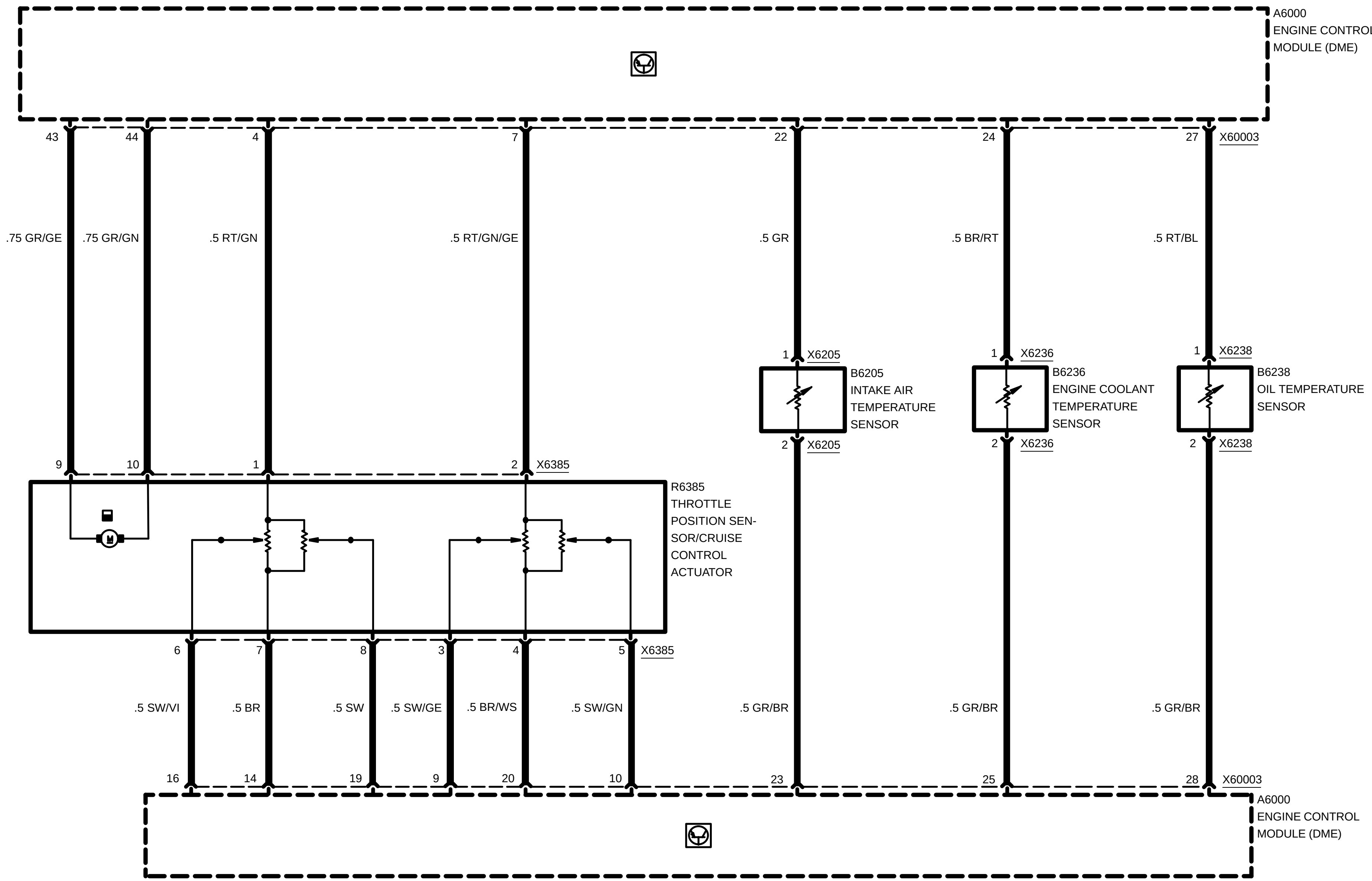
BMW 3

Z3



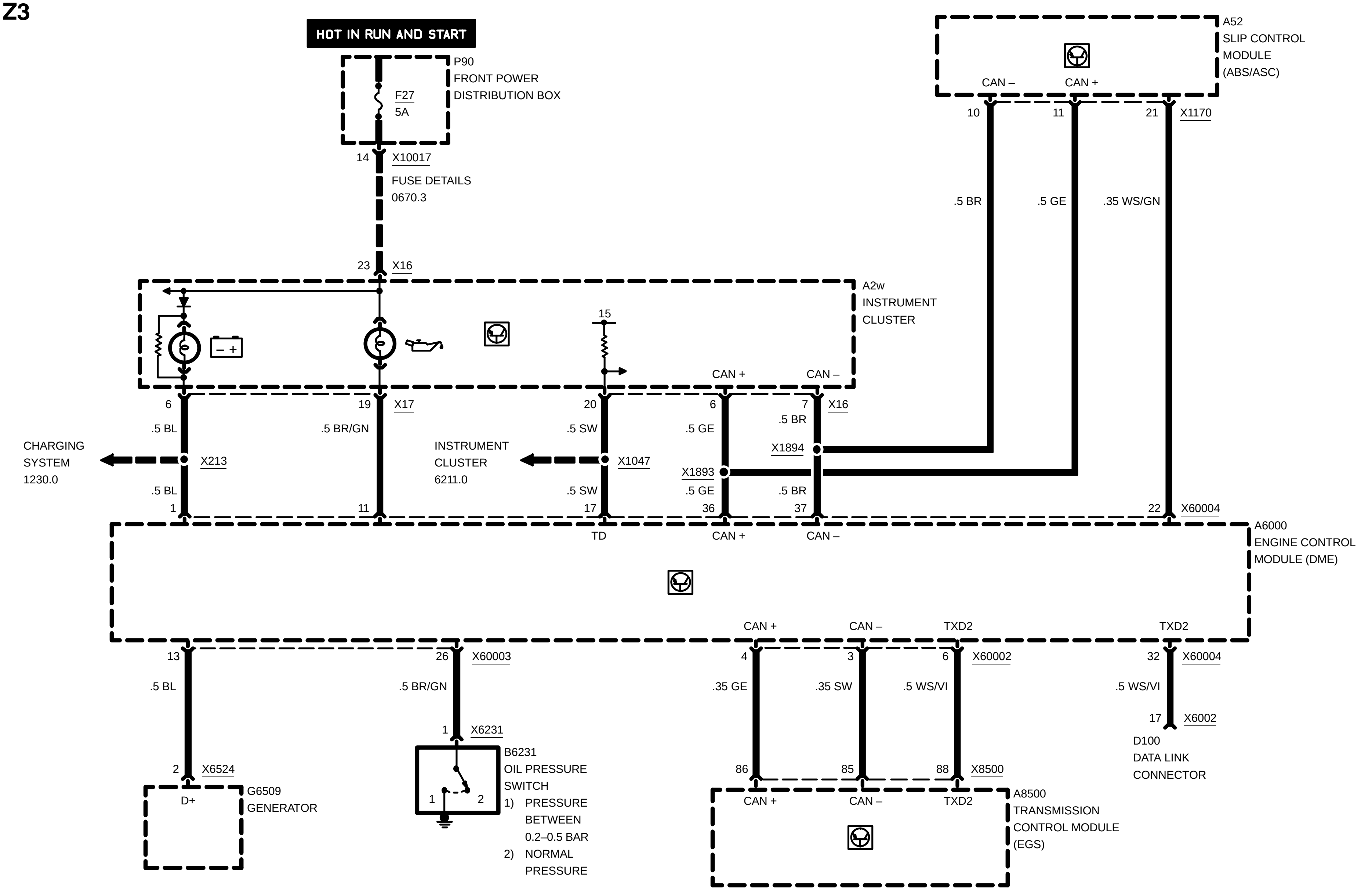
ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS



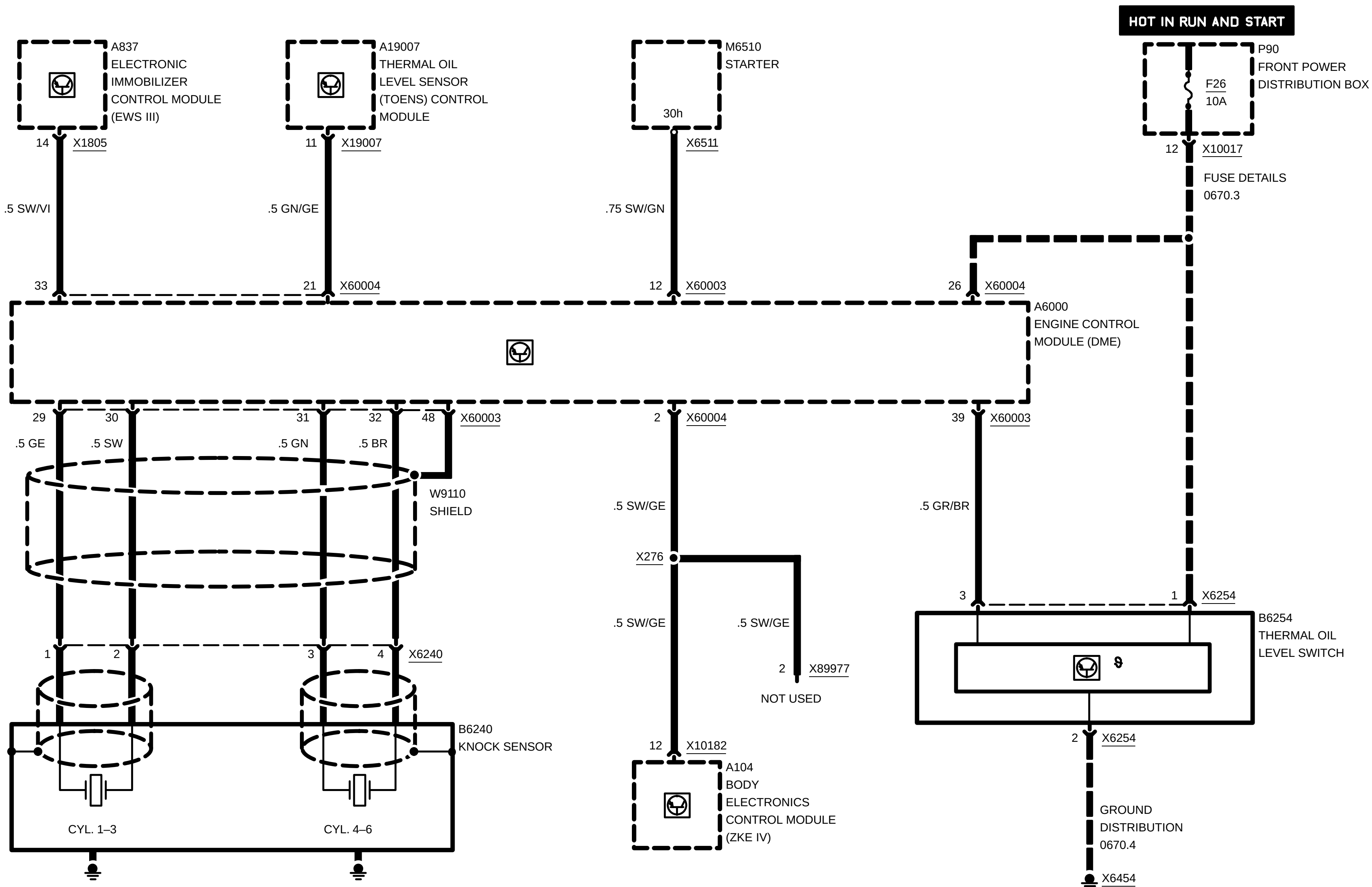
ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS



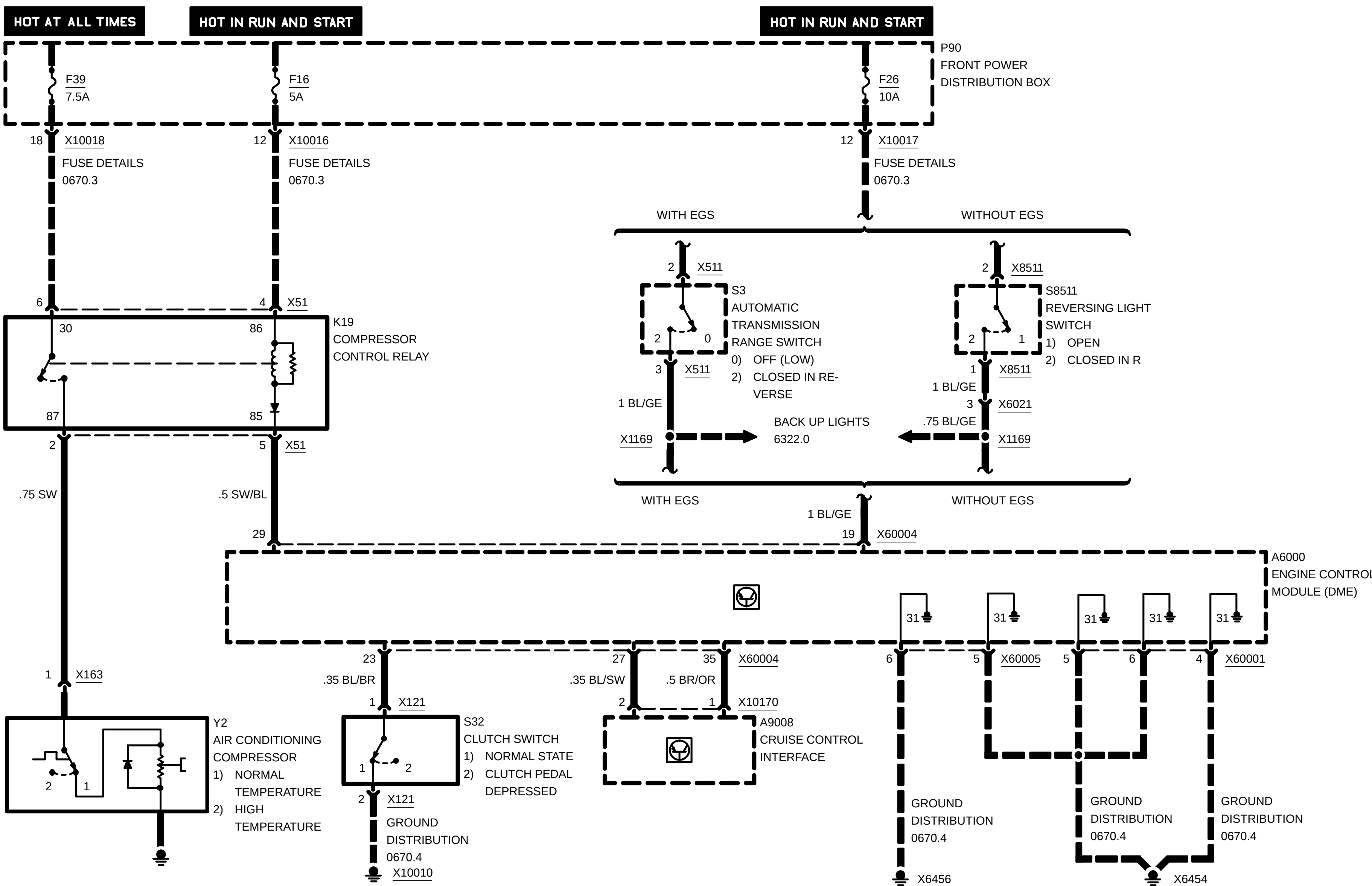
ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS



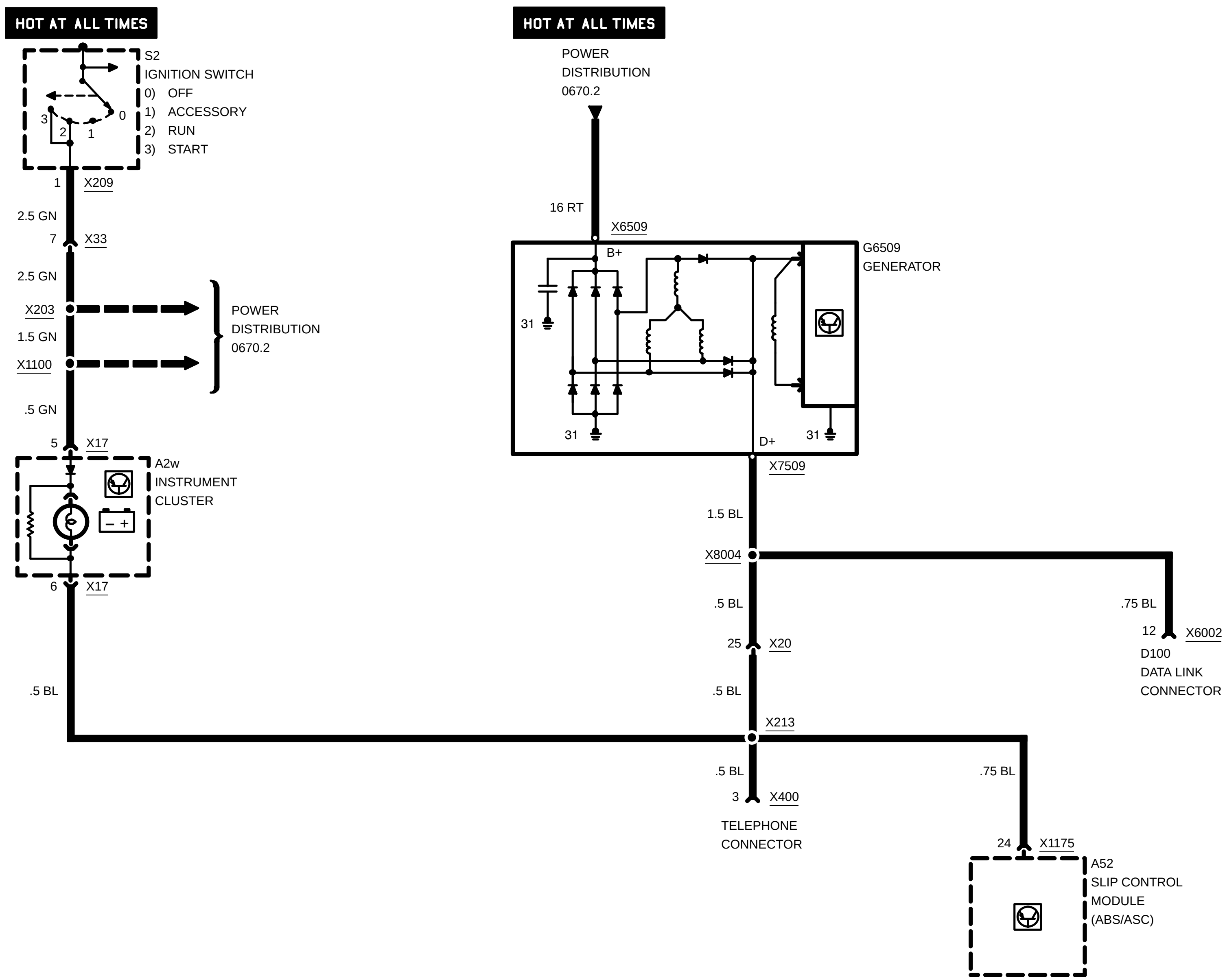
ENGINE CONTROL SYSTEM MS42.1 (6–CYLINDER M52)

Z3 VERSIONS



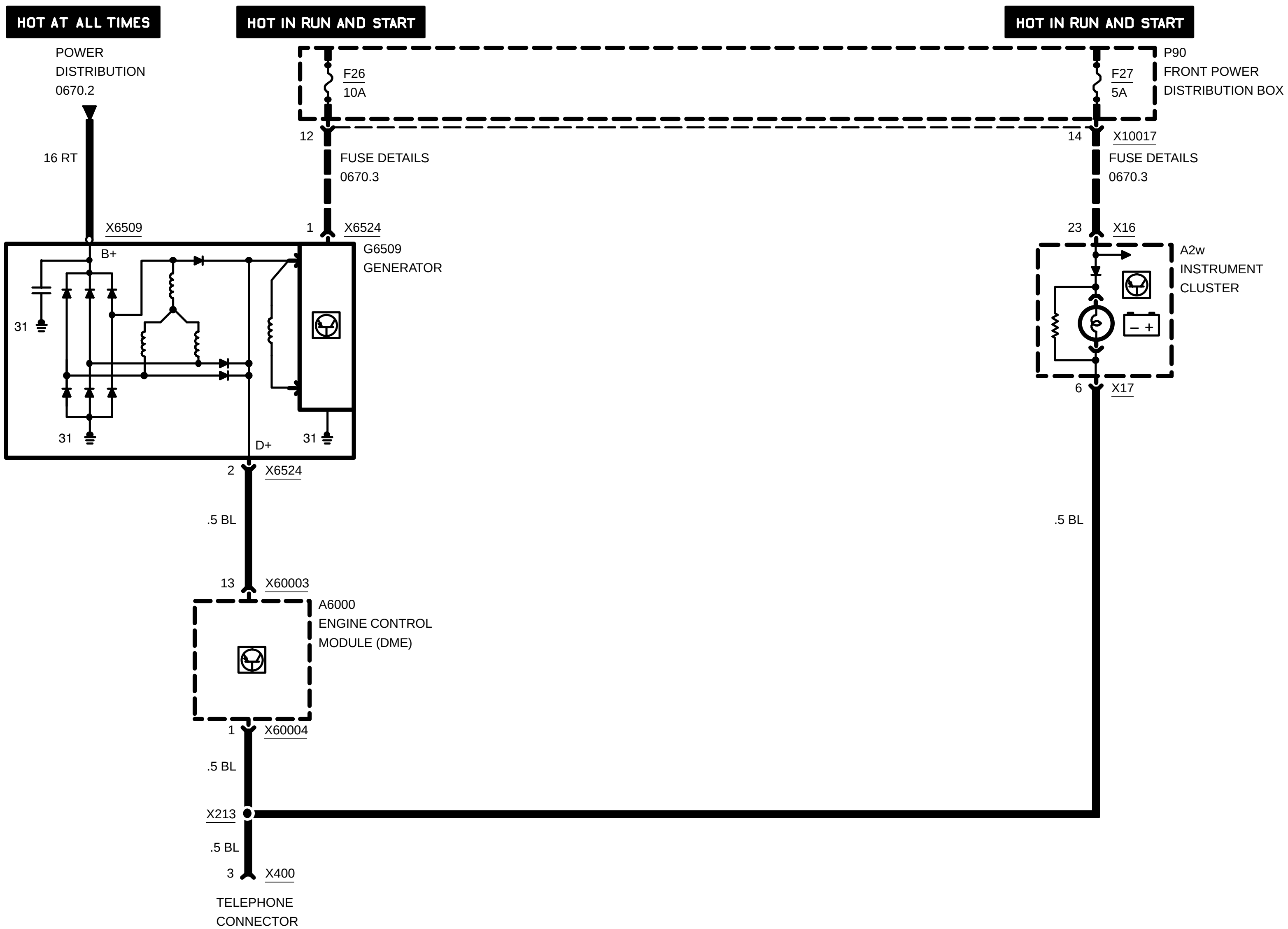
1230.0 CHARGING SYSTEM

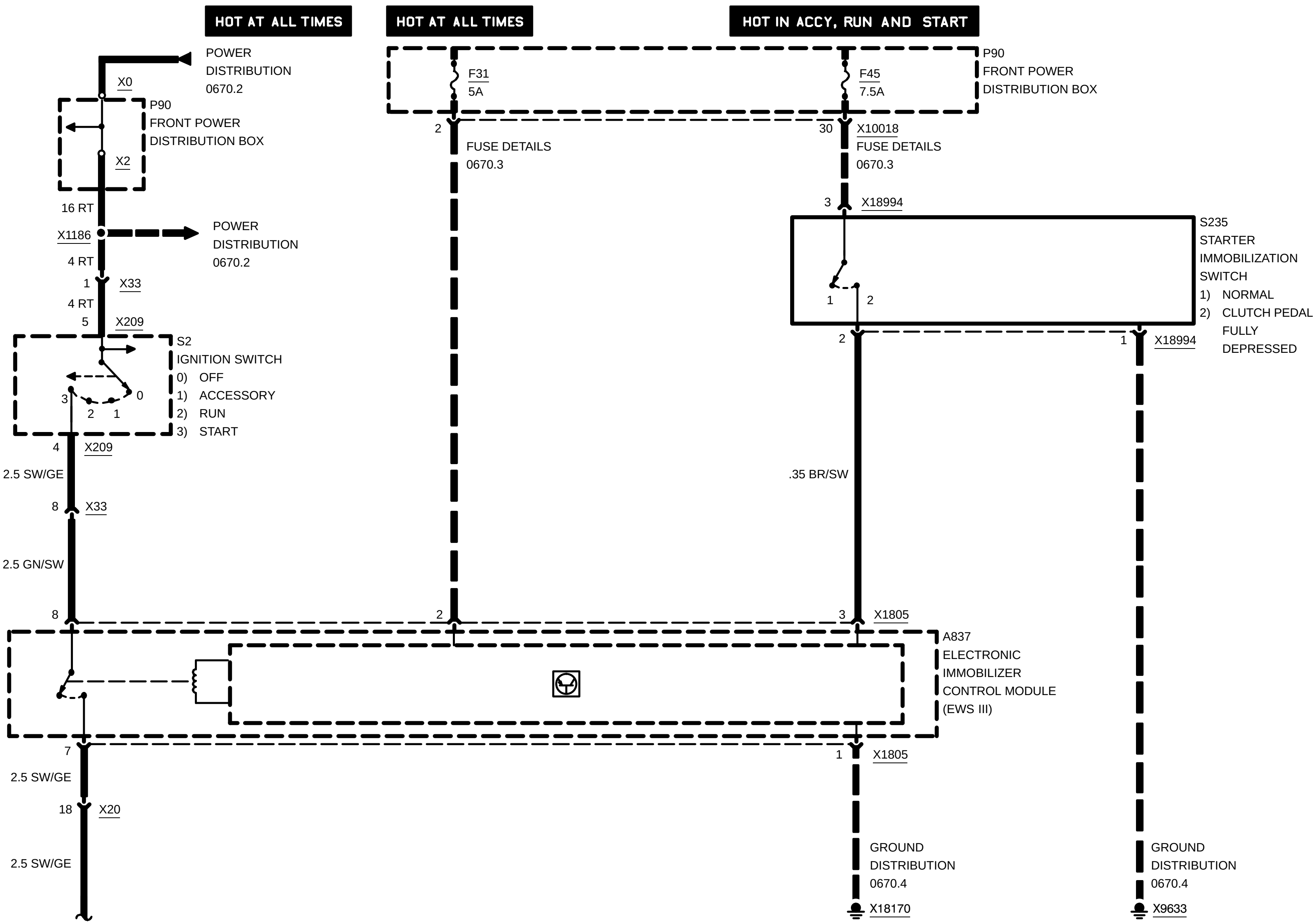
M VERSIONS

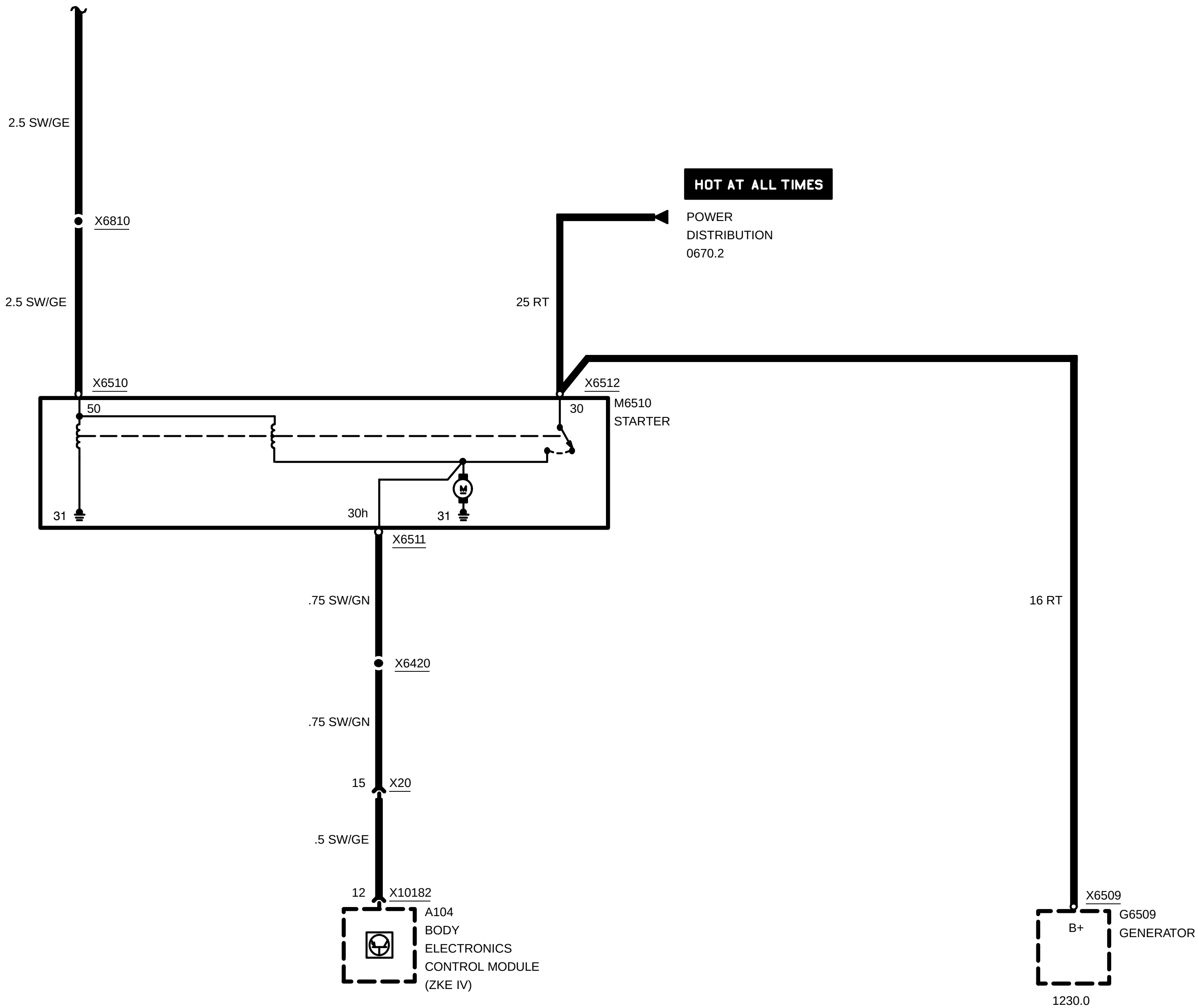


CHARGING SYSTEM

Z3 VERSIONS

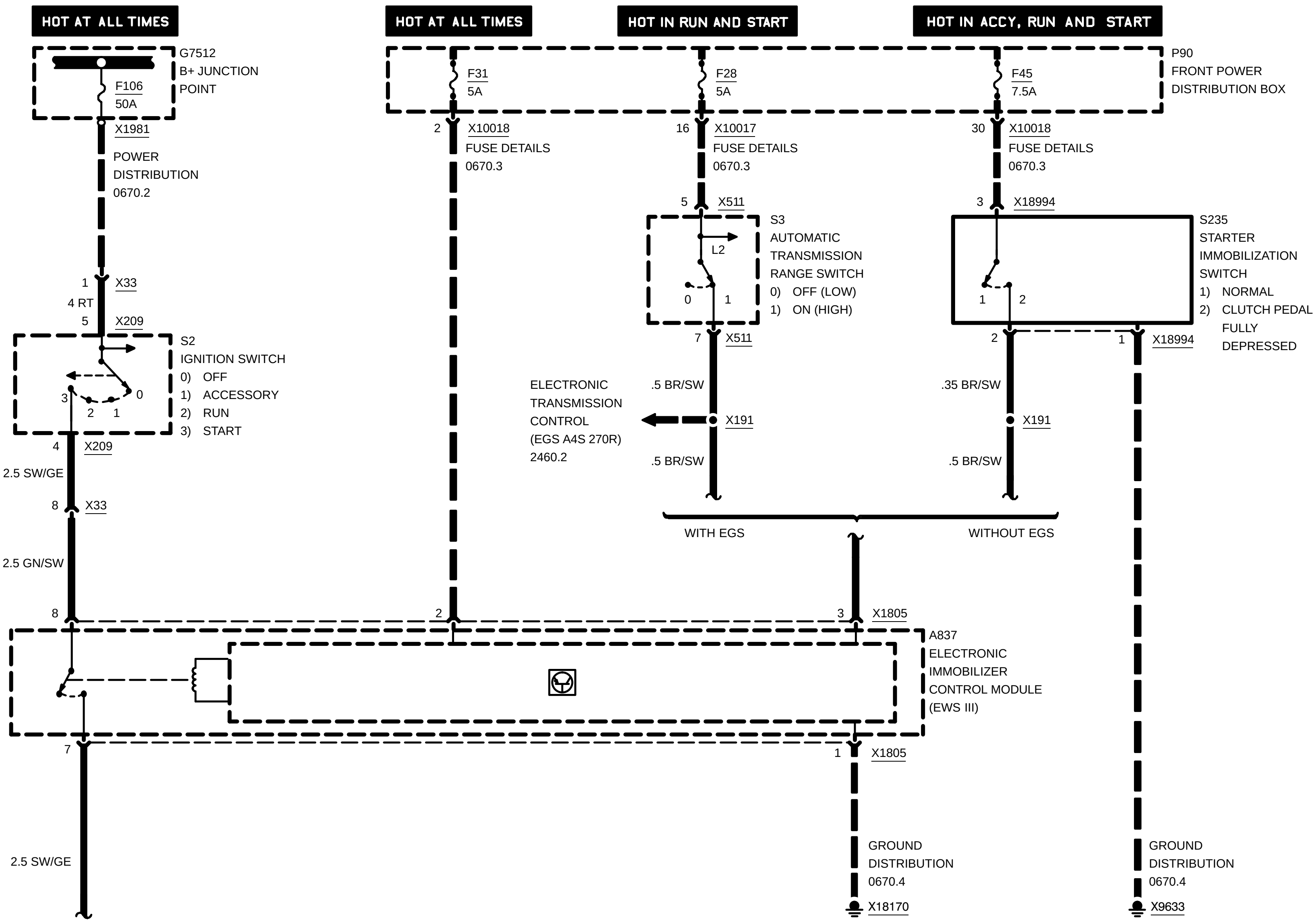


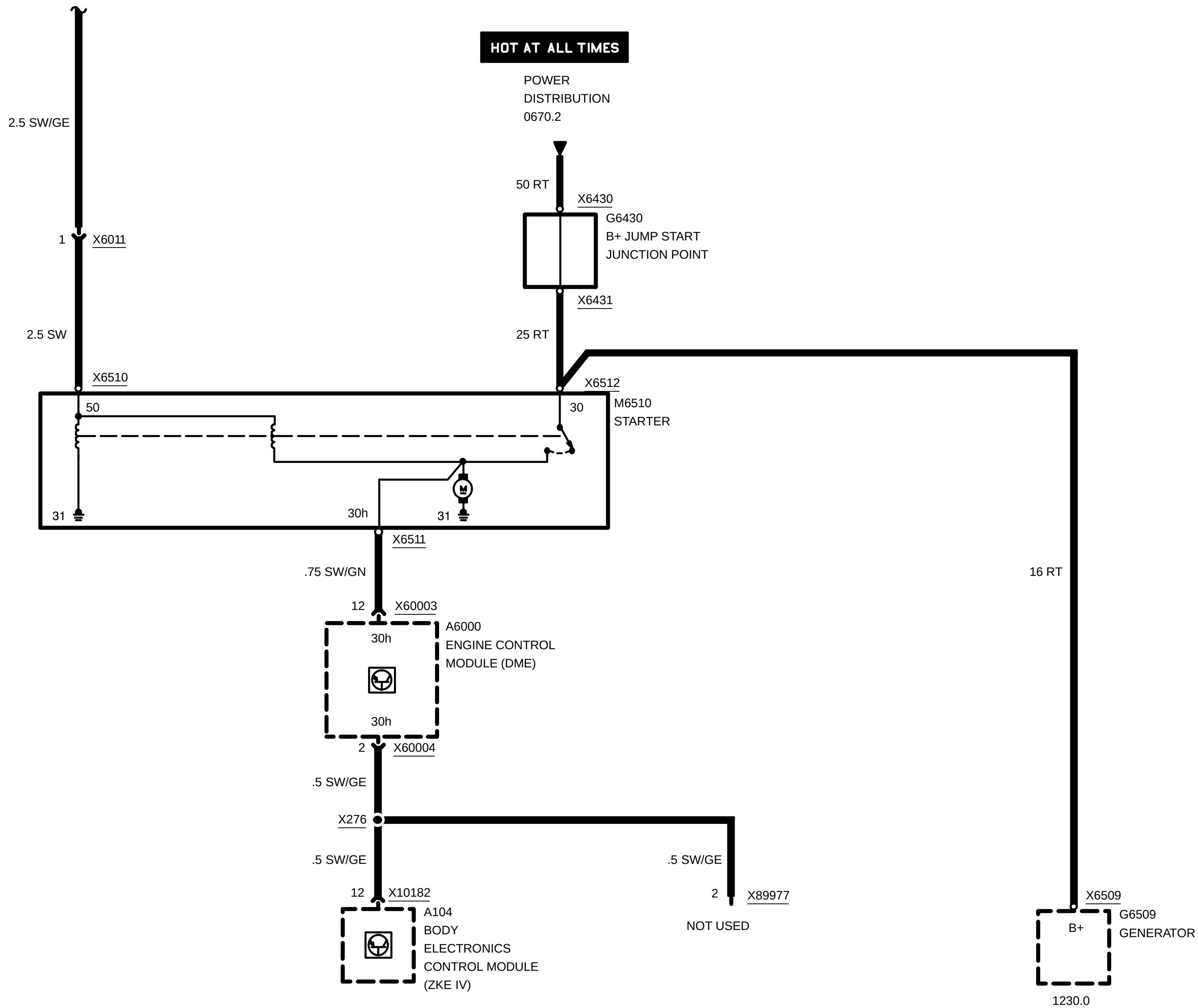

HOT AT ALL TIMES
HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
POWER DISTRIBUTION 0670.2
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
16 RT
X1186
POWER DISTRIBUTION 0670.2
4 RT
1 X33
4 RT
5 X209
S2 IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
4 X209
2.5 SW/GE
8 X33
2.5 GN/SW
F31 5A
F45 7.5A
P90 FRONT POWER DISTRIBUTION BOX
2
30 X10018
FUSE DETAILS 0670.3
FUSE DETAILS 0670.3
3 X18994
S235 STARTER IMMOBILIZATION SWITCH
1) NORMAL
2) CLUTCH PEDAL FULLY DEPRESSED
2
1 X18994
.35 BR/SW
8
2
3 X1805
A837 ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)
7
1 X1805
2.5 SW/GE
18 X20
2.5 SW/GE
GROUND DISTRIBUTION 0670.4
X18170
GROUND DISTRIBUTION 0670.4
X9633


HOT AT ALL TIMES
POWER
DISTRIBUTION
0670.2
2.5 SW/GE
X6810
2.5 SW/GE
25 RT
X6510
X6512
50
30
M6510
STARTER
31
30h
31
X6511
.75 SW/GN
16 RT
X6420
.75 SW/GN
15
X20
.5 SW/GE
12
X10182
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
X6509
B+
G6509
GENERATOR
1230.0

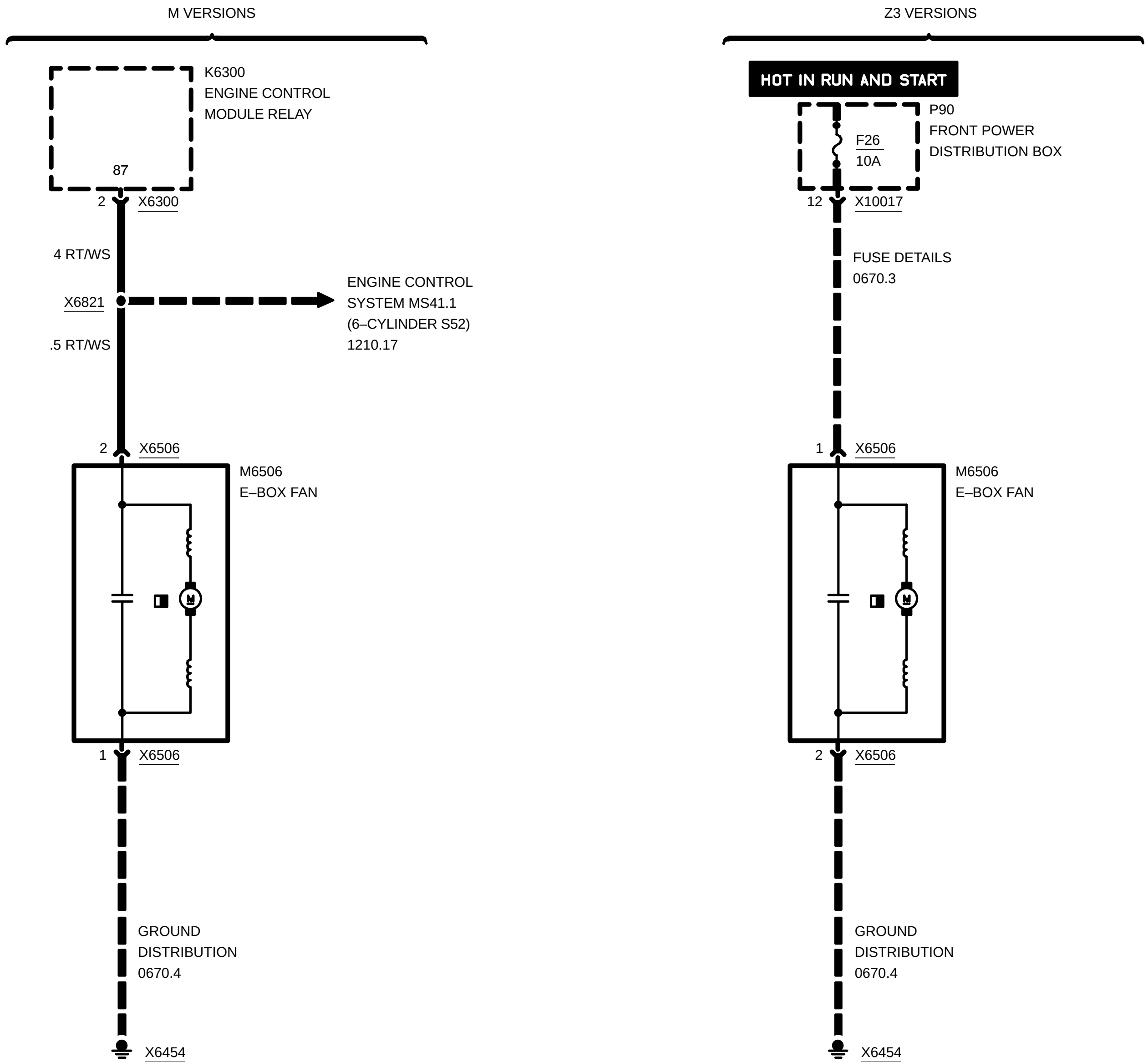
START

Z3 VERSIONS

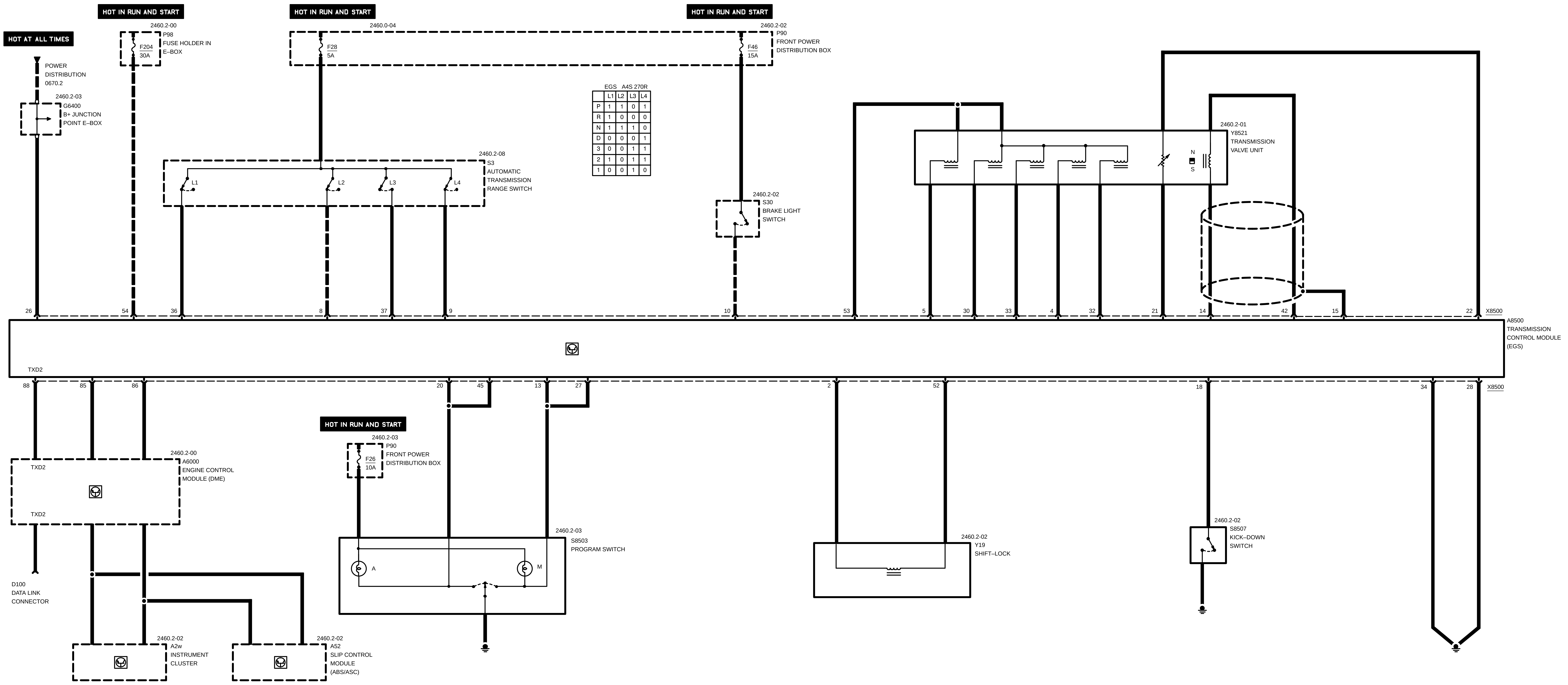



HOT AT ALL TIMES
POWER
DISTRIBUTION
0670.2
2.5 SW/GE
50 RT
X6430
G6430
B+ JUMP START
JUNCTION POINT
1
X6011
X6431
2.5 SW
25 RT
X6510
X6512
50
30
M6510
STARTER
31
30h
31
X6511
.75 SW/GN
16 RT
12
X60003
A6000
ENGINE CONTROL
MODULE (DME)
30h
30h
2
X60004
.5 SW/GE
X276
.5 SW/GE
.5 SW/GE
12
X10182
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
2
X89977
NOT USED
X6509
B+
G6509
GENERATOR
1230.0

1290.0 E–BOX FAN



2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)



EGS A4S 270R

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

Pin Assignments

X8500

Pin	Type	Description/Function	Connection
10		Not used	
11	M	Ground	Shift-lock
12		Not used	
13	A	Solenoid valve 3 control (–)	Transmission valve unit
14	A	Hydraulic pressure regulator control (–)	Transmission valve unit
15		Not used	
16		Not used	
17	E	Gear range signal L2	Automatic transmission range switch
18	E	Gear range signal L4	Automatic transmission range switch
19	E	Brake pedal position	Brake light switch
20		Not used	
21		Not used	
22	E	Manual mode signal	Program switch
23	E	Output speed (–)	Transmission valve unit
24	M	Ground for shield	Shield for speed sensor
25		Not used	
26		Not used	
27	E	Kick-down signal	Kick-down switch
28		Not used	
29	E	Automatic mode signal	Program switch
30	E	Oil temperature signal (–)	Transmission valve unit
31	E	Oil temperature signal (+)	Transmission valve unit
32		Not used	
33		Not used	
34		Not used	
35	E	Battery voltage	B+ junction point E-box
36	A	M-program indication	Program switch
37	M	Ground	Ground point
38		Not used	
39	A	Solenoid valve 1 control (–)	Transmission valve unit

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
40		Not used	
41	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
42	A	Solenoid valve 2 control (–)	Transmission valve unit
43	M	Ground	Ground point
44		Not used	
45	E	Gear range signal L1	Automatic transmission range switch
46	E	Gear range signal L3	Automatic transmission range switch
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51	E	Output speed (+)	Transmission valve unit
52		Not used	
53		Not used	
54	A	A-program indication	Program switch
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61	A	Shift-lock solenoid control	Shift-lock
62	A	Voltage solenoid valves	Transmission valve unit
63	E	Voltage supply	Fuse 204
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	

E = Input, A = Output, M = Ground

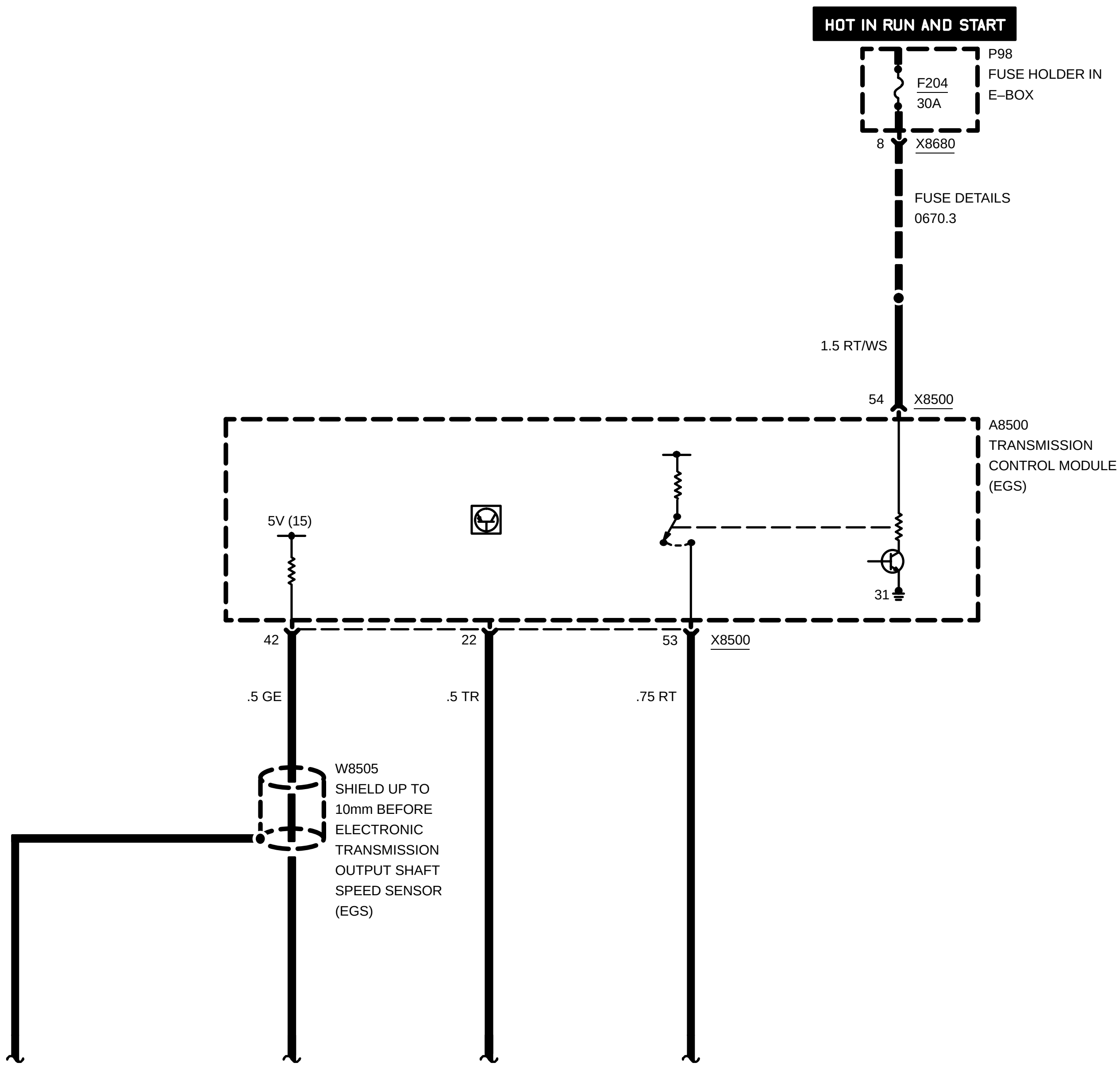
Pin Assignments

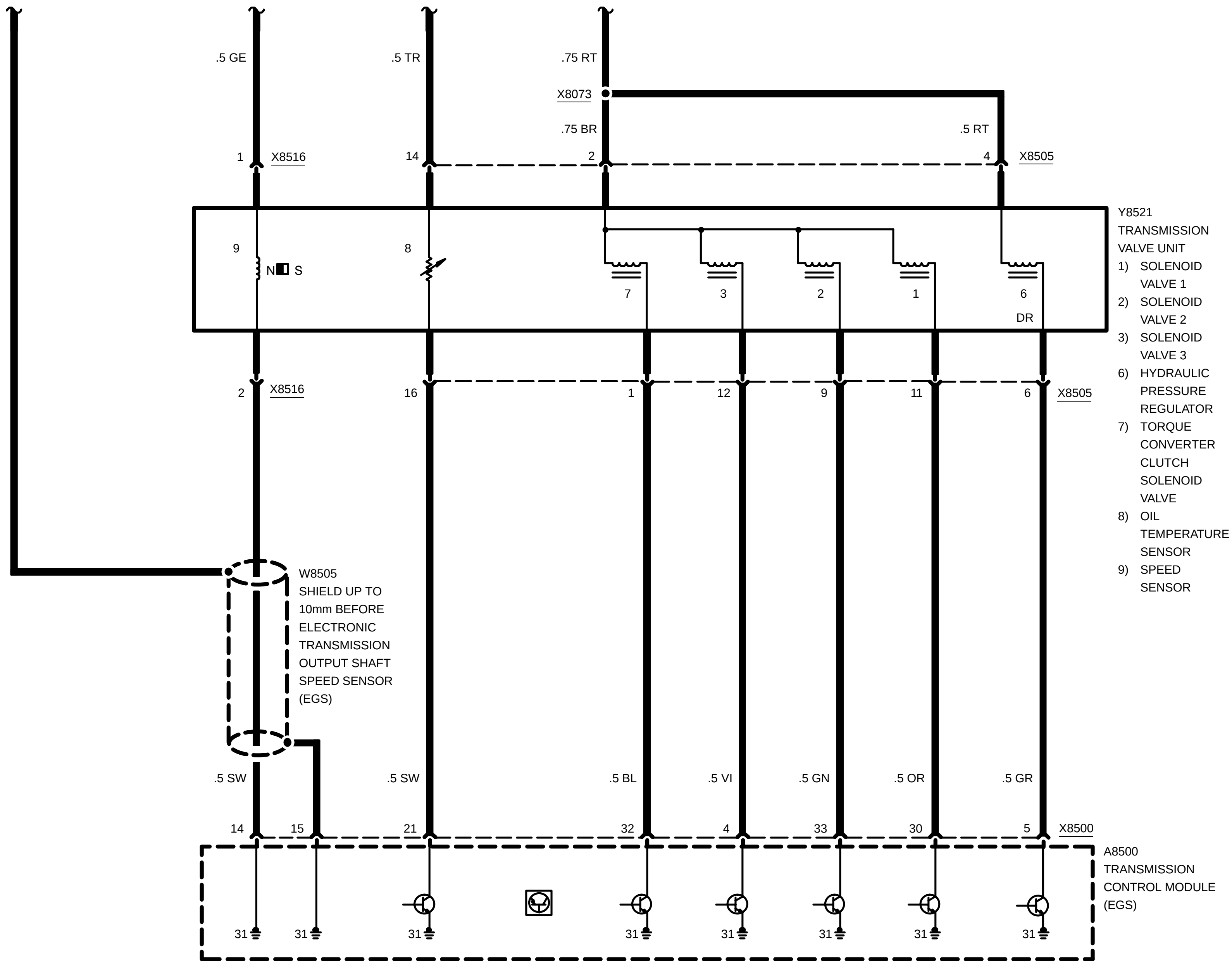
Pin	Type	Description/Function	Connection
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87		Not used	
88		Not used	
89		Not used	
90		Not used	
91		Not used	
92		Not used	
93		Not used	
94	E/A	Can-Low	Engine control module
95	E/A	Can-High	Engine control module
96		Not used	
97	E/A	TxD diagnostic data link	Engine control module

E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

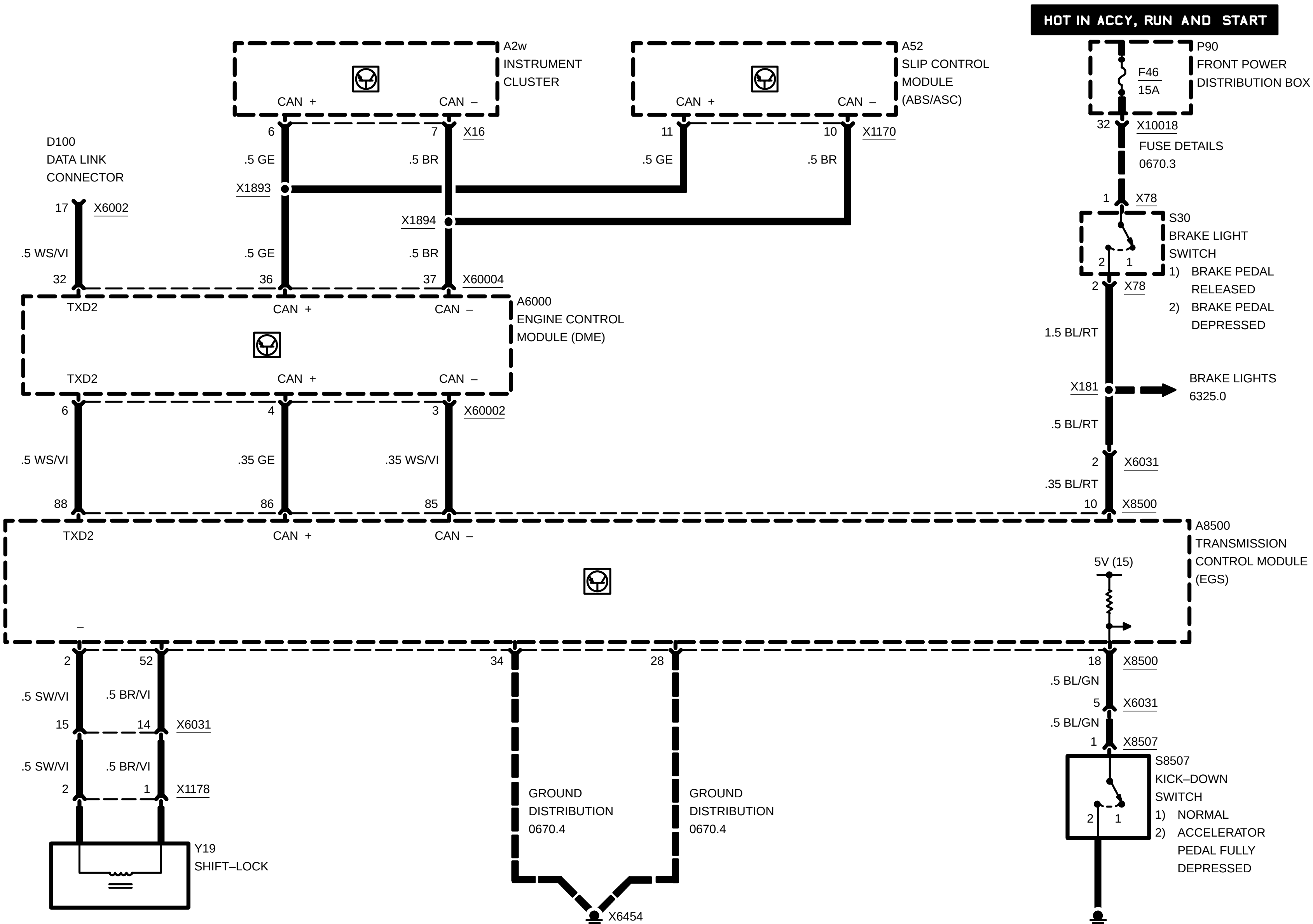
BMW 3 Z3



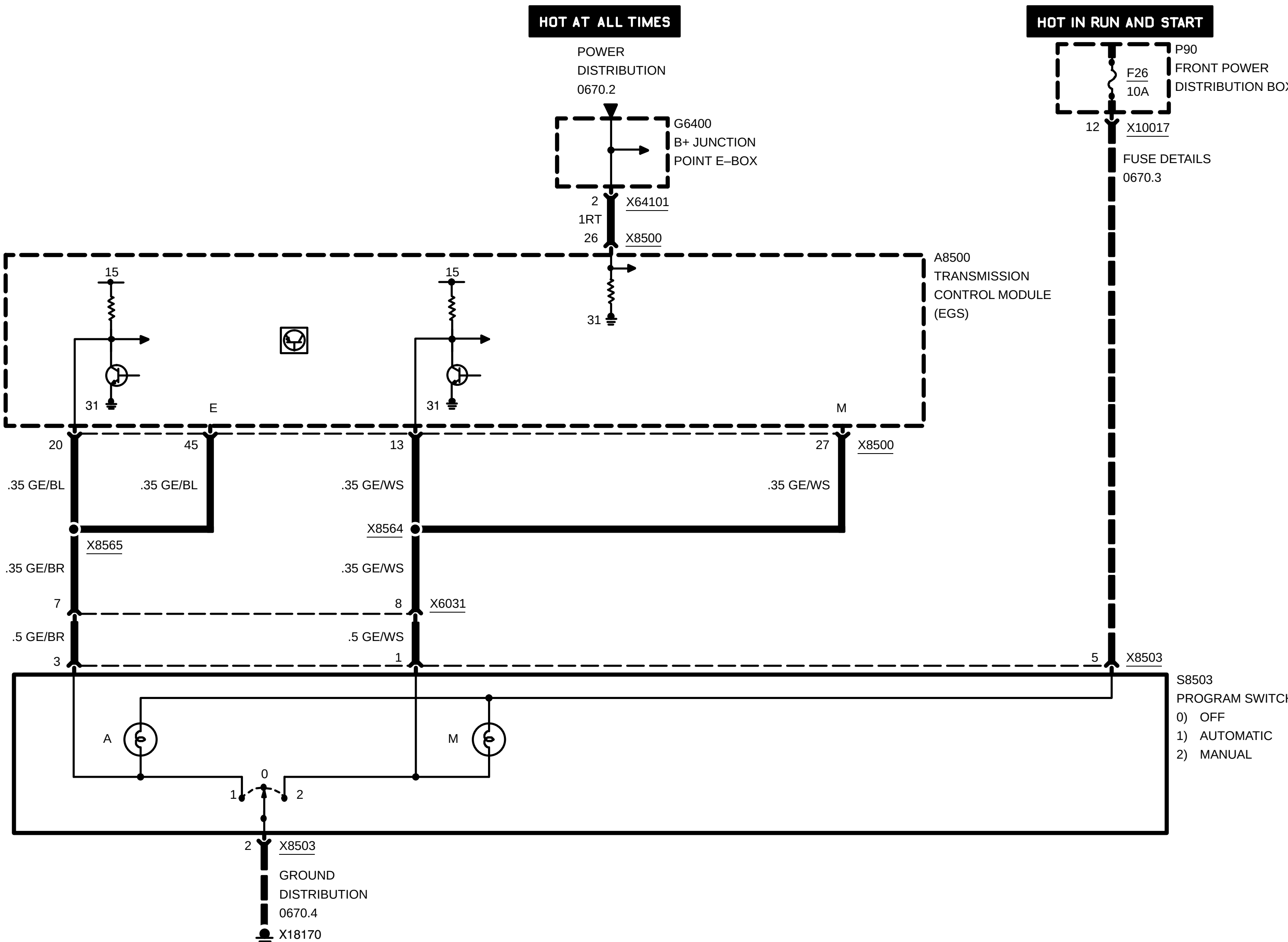

.5 GE
.5 TR
.75 RT
X8073
.75 BR
.5 RT
1
X8516
14
2
4
X8505
9
N S
8
7
3
2
1
6
DR
2
X8516
16
1
12
9
11
6
X8505
W8505
SHIELD UP TO
10mm BEFORE
ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
.5 SW
.5 SW
.5 BL
.5 VI
.5 GN
.5 OR
.5 GR
14
15
21
32
4
33
30
5
X8500
31
31
31
31
31
31
31
31
Y8521
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
A8500
TRANSMISSION
CONTROL MODULE
(EGS)

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

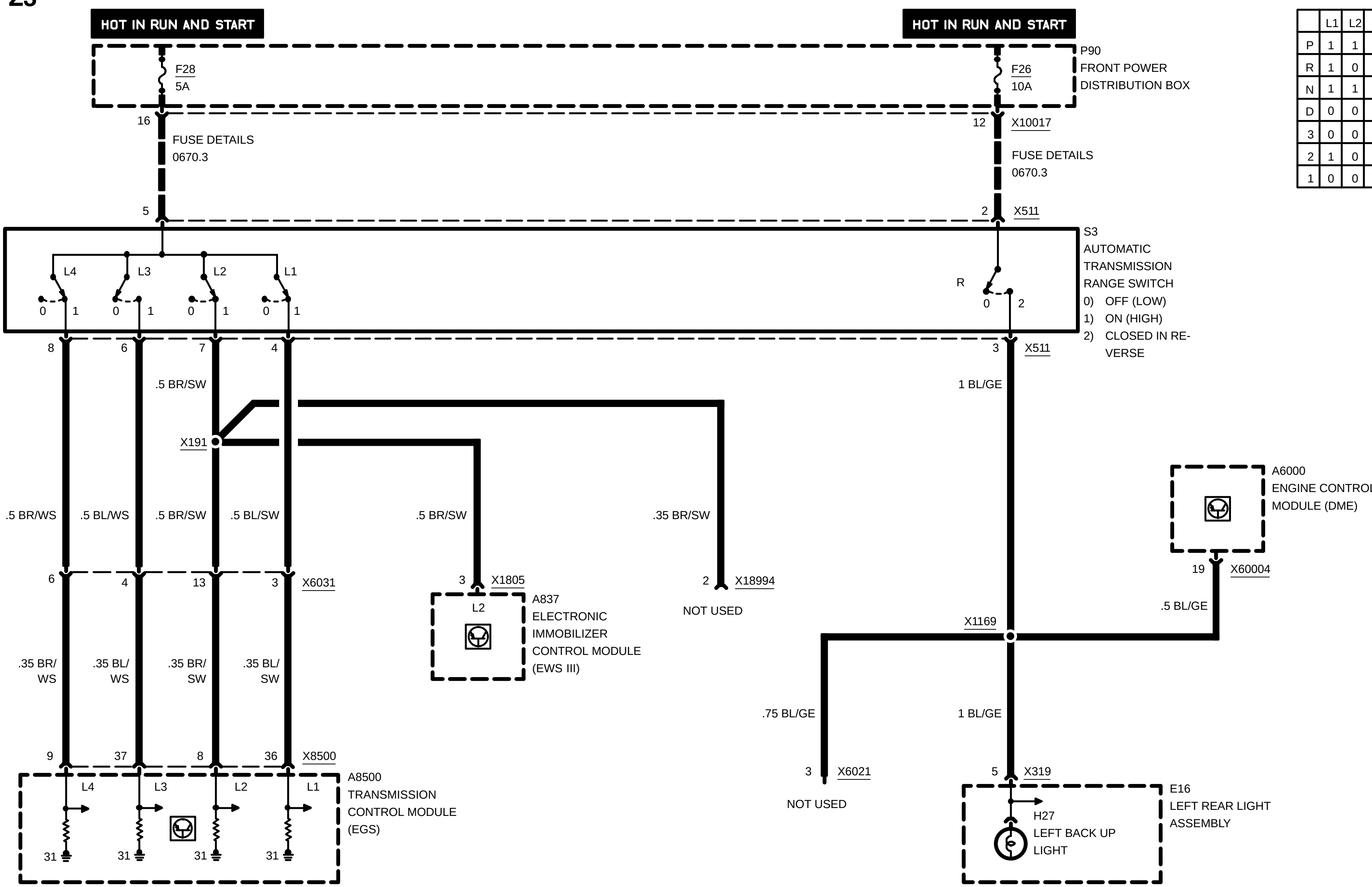


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

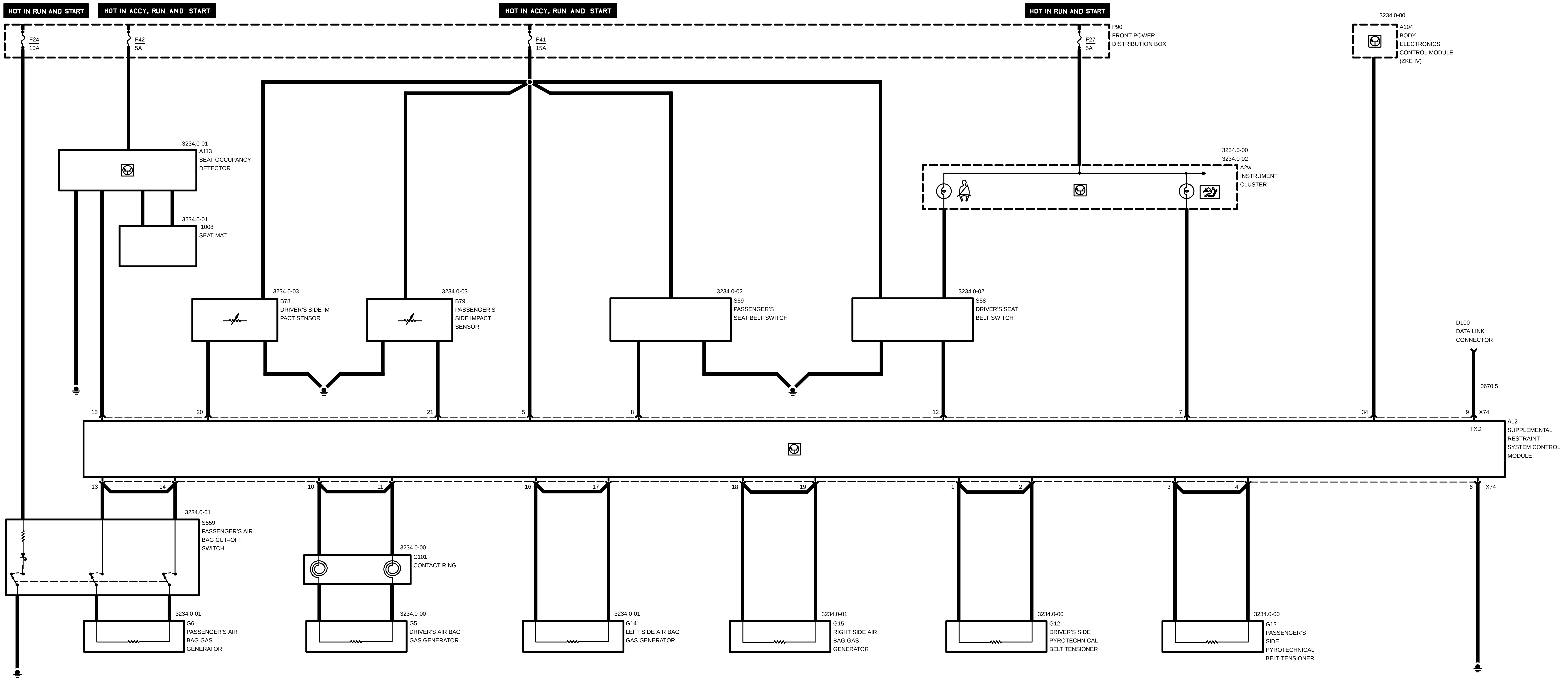


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0



3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



Pin Assignments

X74

Pin	Type	Description/Function	Connection
1	A	Pyrotechnical belt tensioner (+)	Driver’s side pyrotechnical belt tensioner
2	A	Pyrotechnical belt tensioner (–)	Driver’s side pyrotechnical belt tensioner
3	A	Pyrotechnical belt tensioner (+)	Passenger’s side pyrotechnical belt tensioner
4	A	Pyrotechnical belt tensioner (–)	Passenger’s side pyrotechnical belt tensioner
5	E	Power supply	Front power distribution box, fuse 41
6	M	Ground	Ground point
7	A	Air bag warning indicator	Instrument cluster
8	E	Belt switch	Passenger’s seat belt switch
9	E/A	TxD diagnostic data line	Data link connector
10	A	Air bag (+)	Driver’s air bag gas generator
11	A	Air bag (–)	Driver’s air bag gas generator
12	E	Belt switch	Driver’s seat belt switch
13	A	Air bag (+)	Passenger’s air bag gas generator
14	A	Air bag (–)	Passenger’s air bag gas generator
15	E	Seat occupancy detector	Seat occupancy detector
16	A	Gas generator	Gas generator, left side air bag
17	A	Gas generator	Gas generator, left side air bag
18	A	Gas generator	Gas generator, right side air bag
19	A	Gas generator	Gas generator, right side air bag
20	E	Impact sensor	Driver’s side impact sensor
21	E	Impact sensor	Passenger’s side impact sensor
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	
27		Not used	
28		Not used	
29		Not used	

E = Input, A = Output, M = Ground

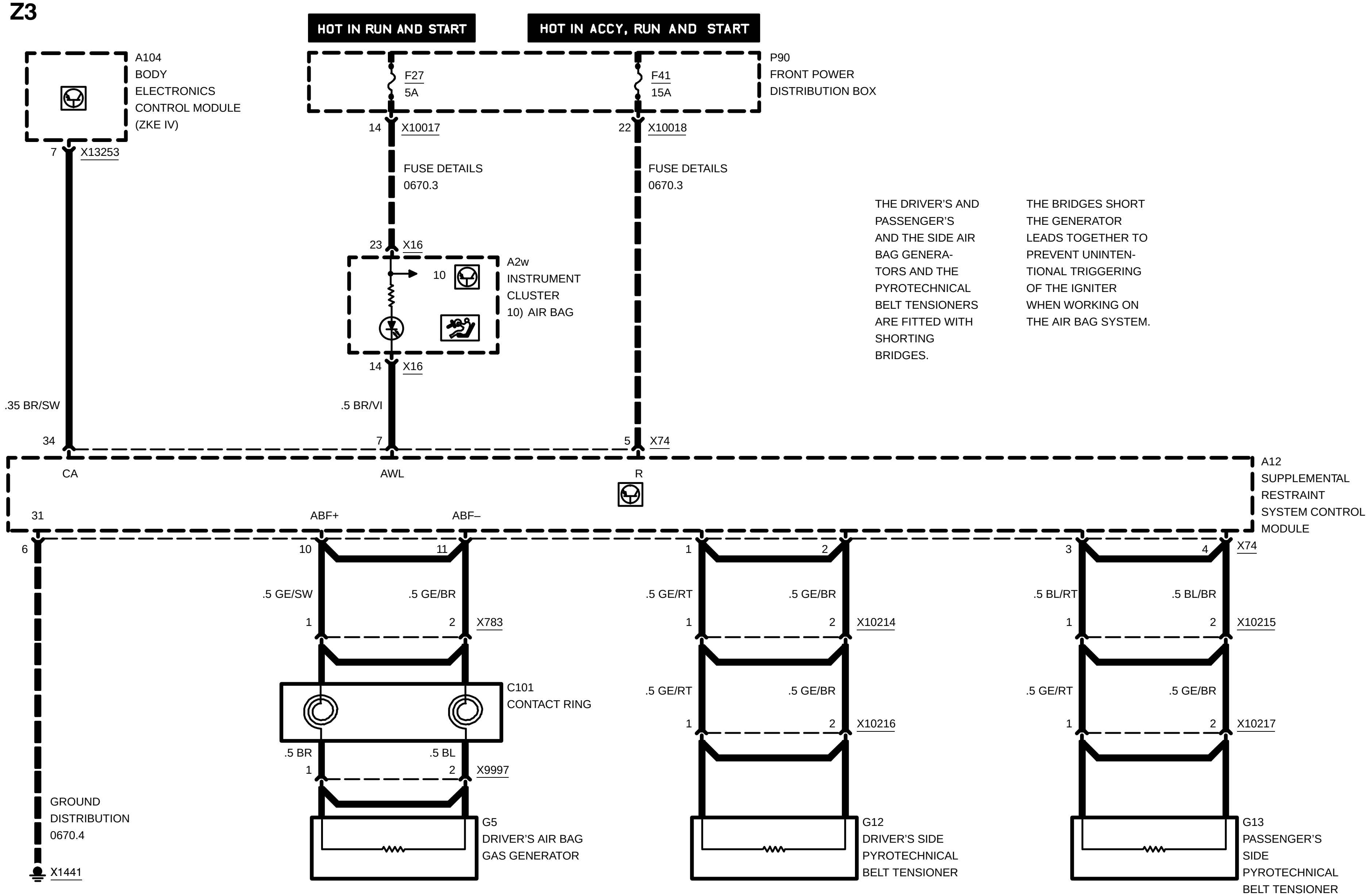
Pin Assignments

Pin	Type	Description/Function	Connection
30		Not used	
31		Not used	
32		Not used	
33		Not used	
34	A	Crash signal	Body electronics control module (ZKE IV)
35		Not used	
36		Not used	
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	

E = Input, A = Output, M = Ground

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

BMW 3
Z3

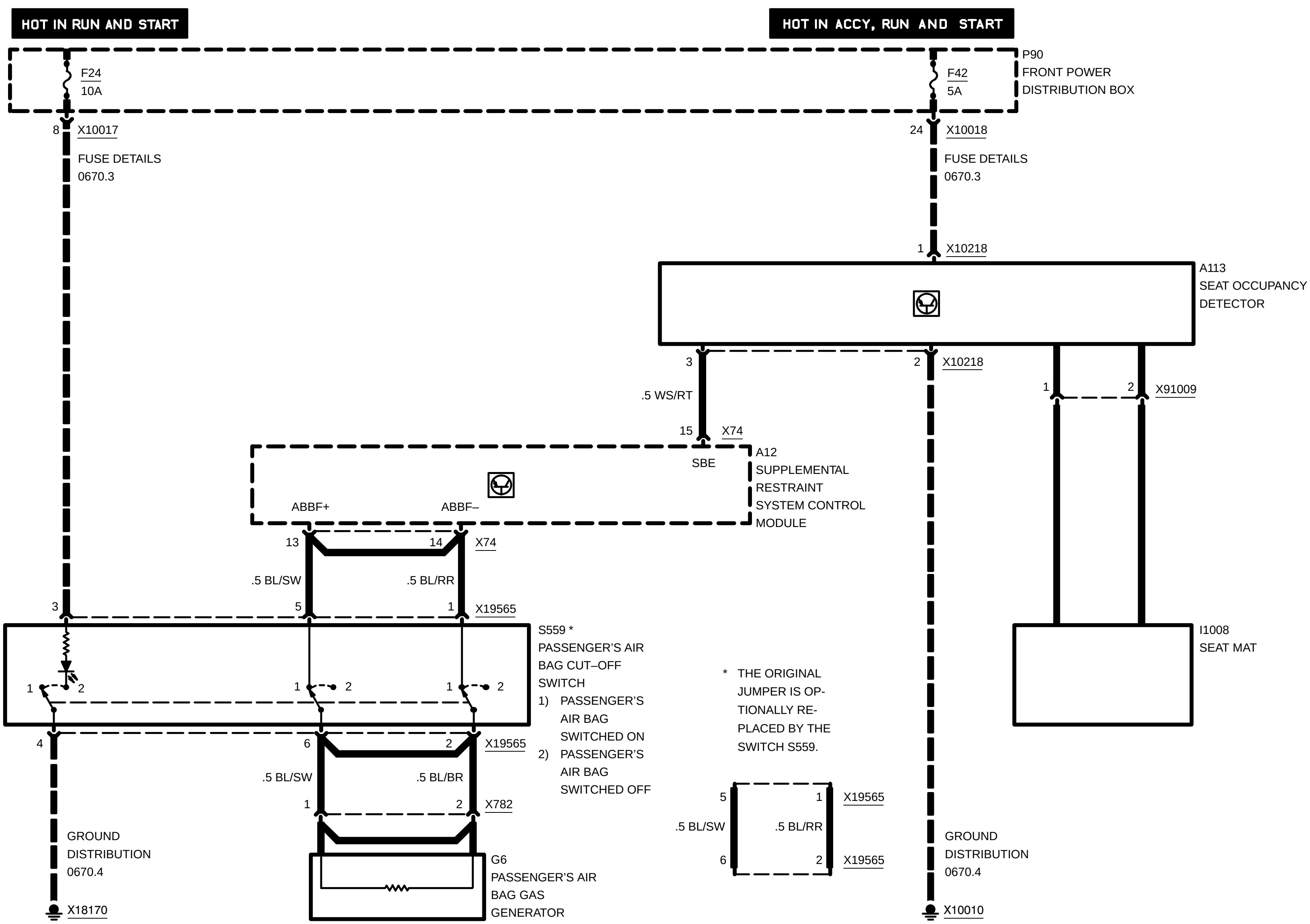


THE DRIVER'S AND PASSENGER'S AND THE SIDE AIR BAG GENERATORS AND THE PYROTECHNICAL BELT TENSIONERS ARE FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

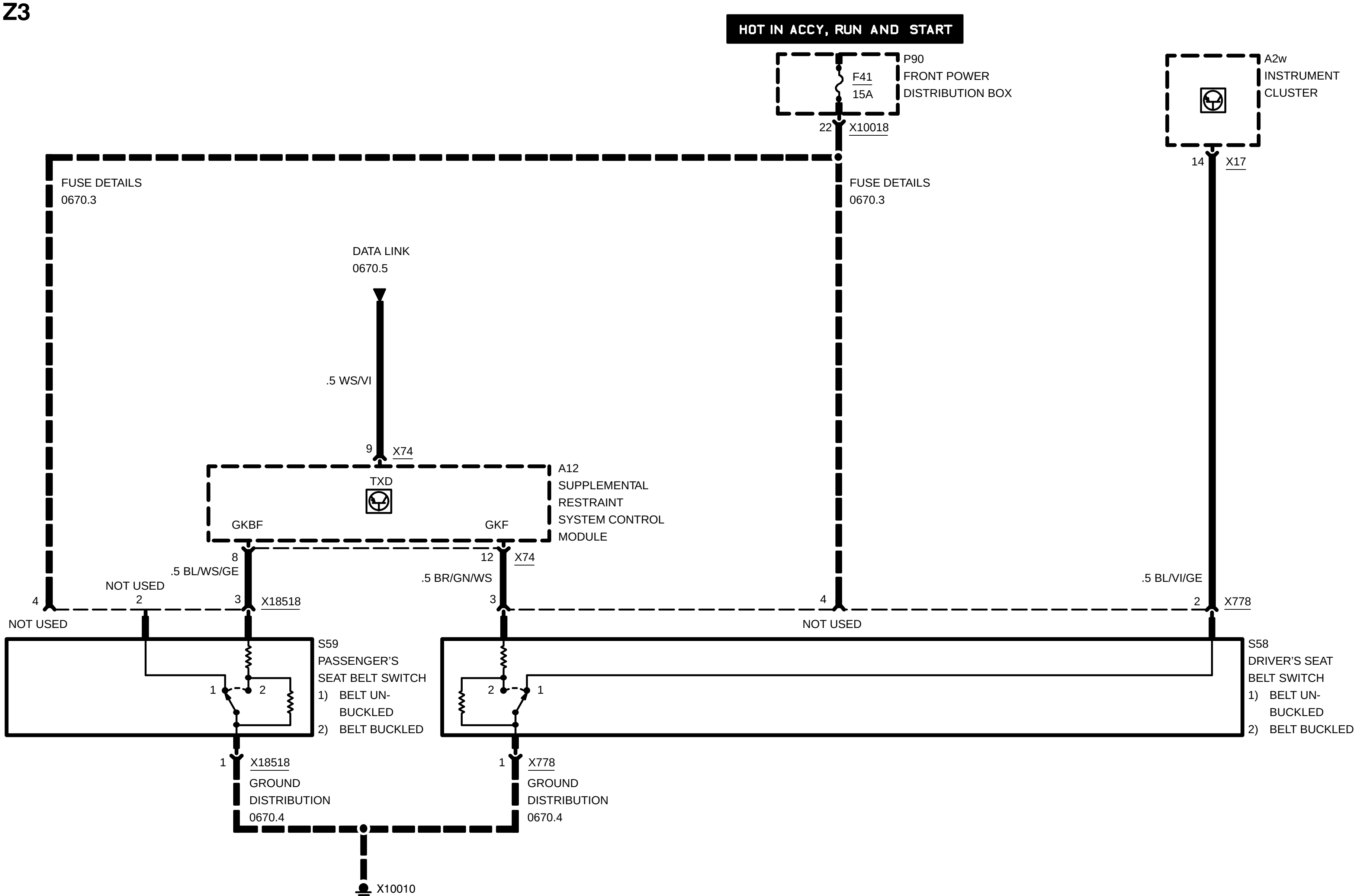
BMW 3 Z3

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



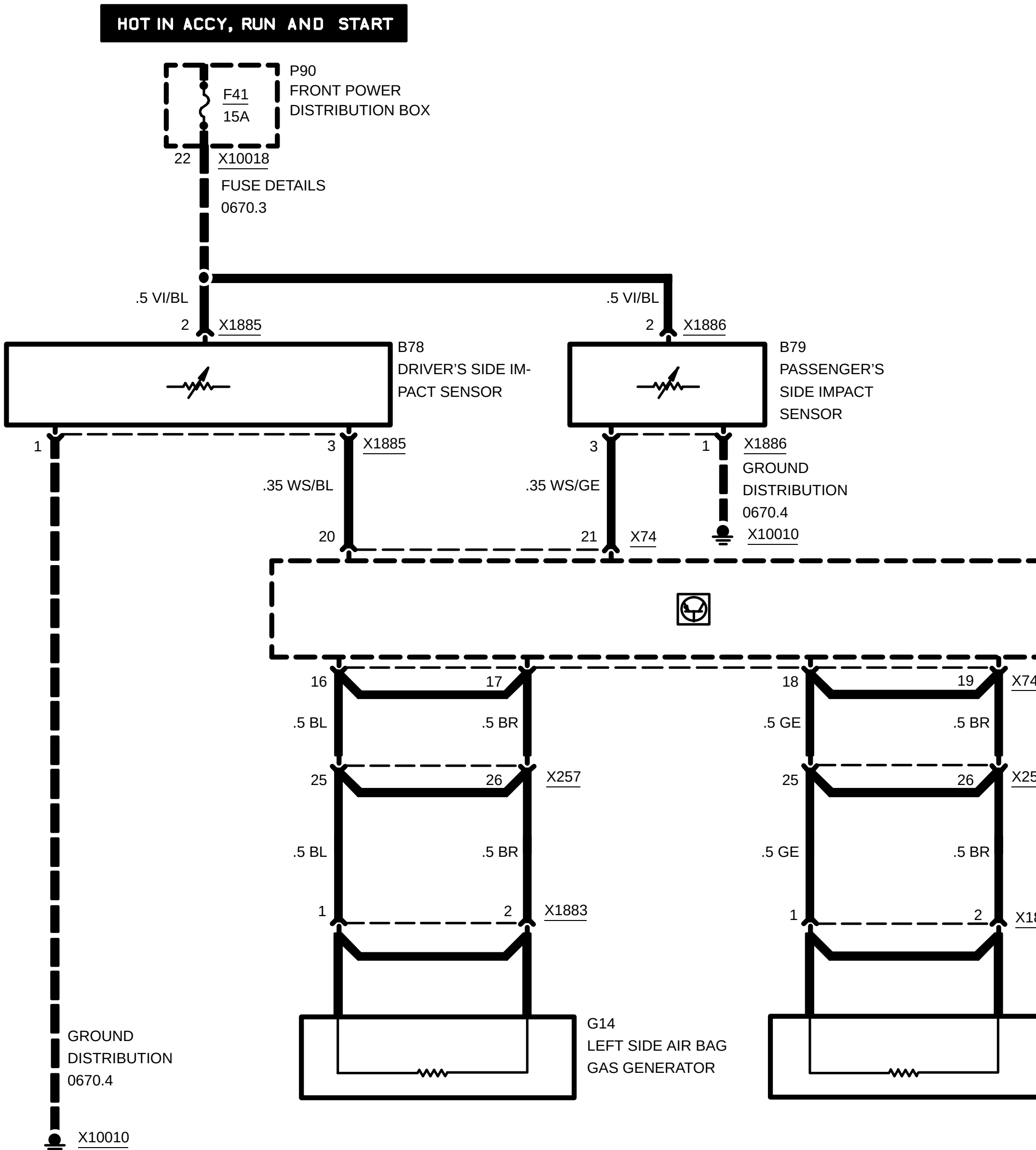
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

BMW 3 Z3



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

SIDE AIR BAG

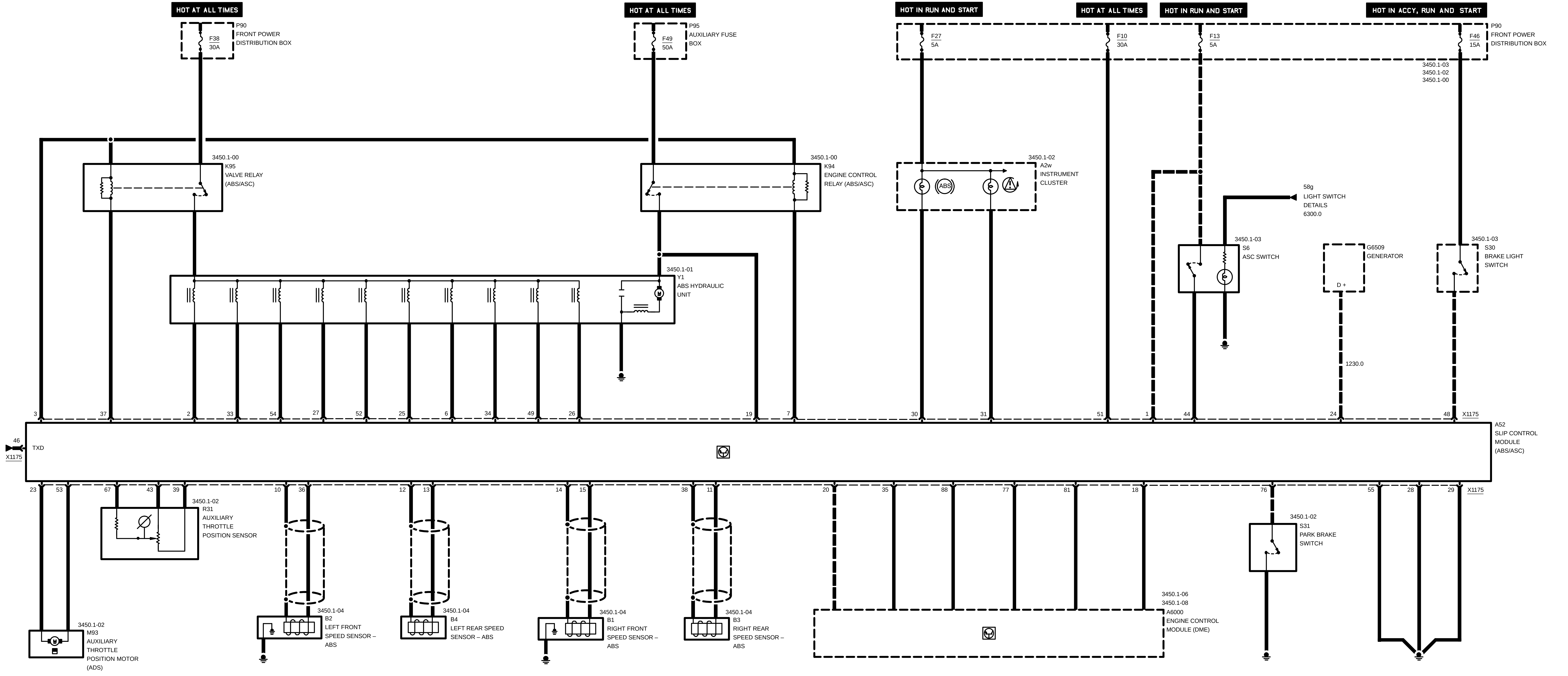


THE DRIVER'S AND PASSENGER'S AND THE SIDE AIR BAG GENERATORS AND THE PYROTECHNICAL BELT TENSIONERS ARE FITTED WITH SHORTING BRIDGES.

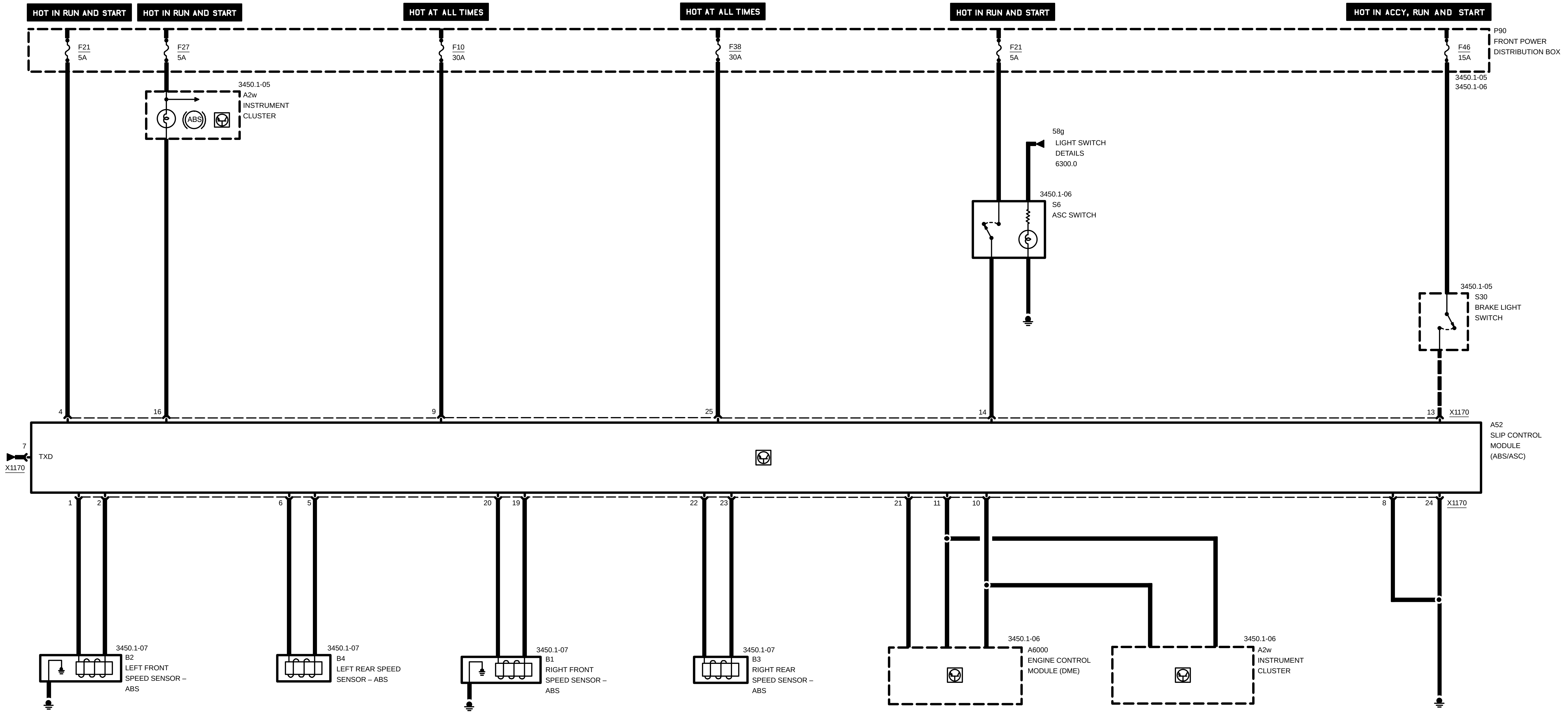
THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

3450.1 SLIP CONTROL (ABS/ASC)

M VERSIONS



Z3 VERSIONS


HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN AND START
F21 5A
F27 5A
F10 30A
F38 30A
F21 5A
F46 15A
P90 FRONT POWER DISTRIBUTION BOX
3450.1-05 3450.1-06
3450.1-05 A2w INSTRUMENT CLUSTER
ABS
58g LIGHT SWITCH DETAILS 6300.0
3450.1-06 S6 ASC SWITCH
3450.1-05 S30 BRAKE LIGHT SWITCH
4
16
9
25
14
13
X1170
A52 SLIP CONTROL MODULE (ABS/ASC)
7
TXD
X1170
1
2
6
5
20
19
22
23
21
11
10
8
24
X1170
3450.1-07 B2 LEFT FRONT SPEED SENSOR – ABS
3450.1-07 B4 LEFT REAR SPEED SENSOR – ABS
3450.1-07 B1 RIGHT FRONT SPEED SENSOR – ABS
3450.1-07 B3 RIGHT REAR SPEED SENSOR – ABS
3450.1-06 A6000 ENGINE CONTROL MODULE (DME)
3450.1-06 A2w INSTRUMENT CLUSTER

Pin Assignments

X1175

Pin	Type	Description/Function	Connection
51	E	Voltage supply	Fuse 13
52	A	Left front inlet valve	ABS hydraulic unit
53	A	Voltage supply	Valve – Engine control relay
54		Not used	
55		Not used	
56	A	Right rear inlet valve	ABS hydraulic unit
57	A	Activate relay	Engine control relay
58		Not used	
59		Not used	
60	M	Sensor ground	ABS speed sensor front left
61	E	Speed signal	ABS speed sensor rear right
62	M	Sensor ground	ABS speed sensor rear left
63	E	Speed signal	ABS speed sensor rear left
64	M	Sensor ground	ABS speed sensor front right
65	E	Speed signal	ABS speed sensor front right
66		Not used	
67		Not used	
68	E	Engine signal 1	Engine control module (DME)
69	E	Relay activation feedback	Engine control relay
70	E	Speed signal	Engine control module (DME)
71		Not used	
72		Not used	
73	A	ADS step motor (+)	ADS step motor
74	E	Charge indicator	Generator
75	A	Left rear outlet valve	ABS hydraulic unit
76	A	Shut-off valve (ASC)	ABS hydraulic unit
77	A	Right front outlet valve	ABS hydraulic unit
78	M	Ground	Ground point
79	M	Ground	Ground point
80	A	ABS lamp control	Instrument cluster

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
81	A	ASC lamp control	Instrument cluster
82		Not used	
83	A	Left front outlet valve	ABS hydraulic unit
84	A	Right rear outlet valve	ABS hydraulic unit
85	A	Right rear speed signal	Engine control module (DME)
86	E	Speed signal	ABS speed sensor front left
87	A	Activate relay	Valve relay
88	M	Sensor ground	ABS speed sensor rear right
89	A	Throttle position sensor (–)	Auxiliary throttle position sensor
90		Not used	
91		Not used	
92		Not used	
93	A	Throttle position sensor (+)	Auxiliary throttle position sensor
94	E	ASC-ON-signal	ASC switch
95		Not used	
96	E/A	TXD signal	Diagnostic link
97		Not used	
98	E	Brake signal	Brake light switch
99	A	Changeover valve (ASC)	ABS hydraulic unit
100		Not used	
101	E	Voltage supply	Fuse 10
102	A	Left rear inlet valve	ABS hydraulic unit
103	A	ADS step motor (–)	ADS step motor
104	A	Right front inlet valve	ABS hydraulic unit
105	M	Ground	Ground point
106		Not used	
107		Not used	
108		Not used	
109		Not used	
110		Not used	
111		Not used	
112		Not used	

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
113		Not used	
114		Not used	
115		Not used	
116		Not used	
117	E	ASC throttle flap signal	Auxiliary throttle position sensor
118		Not used	
119		Not used	
120		Not used	
121		Not used	
122		Not used	
123		Not used	
124		Not used	
125		Not used	
126	E	Signal park brake set	Park brake switch
127	E	Engine signal 3	Engine control module (DME)
128		Not used	
129		Not used	
130		Not used	
131	E	Engine signal 2	Engine control module (DME)
132		Not used	
133		Not used	
134		Not used	
135		Not used	
136		Not used	
137		Not used	
138	E	Throttle flap position	Engine control module (DME)

E = Input, A = Output, M = Ground

Pin Assignments

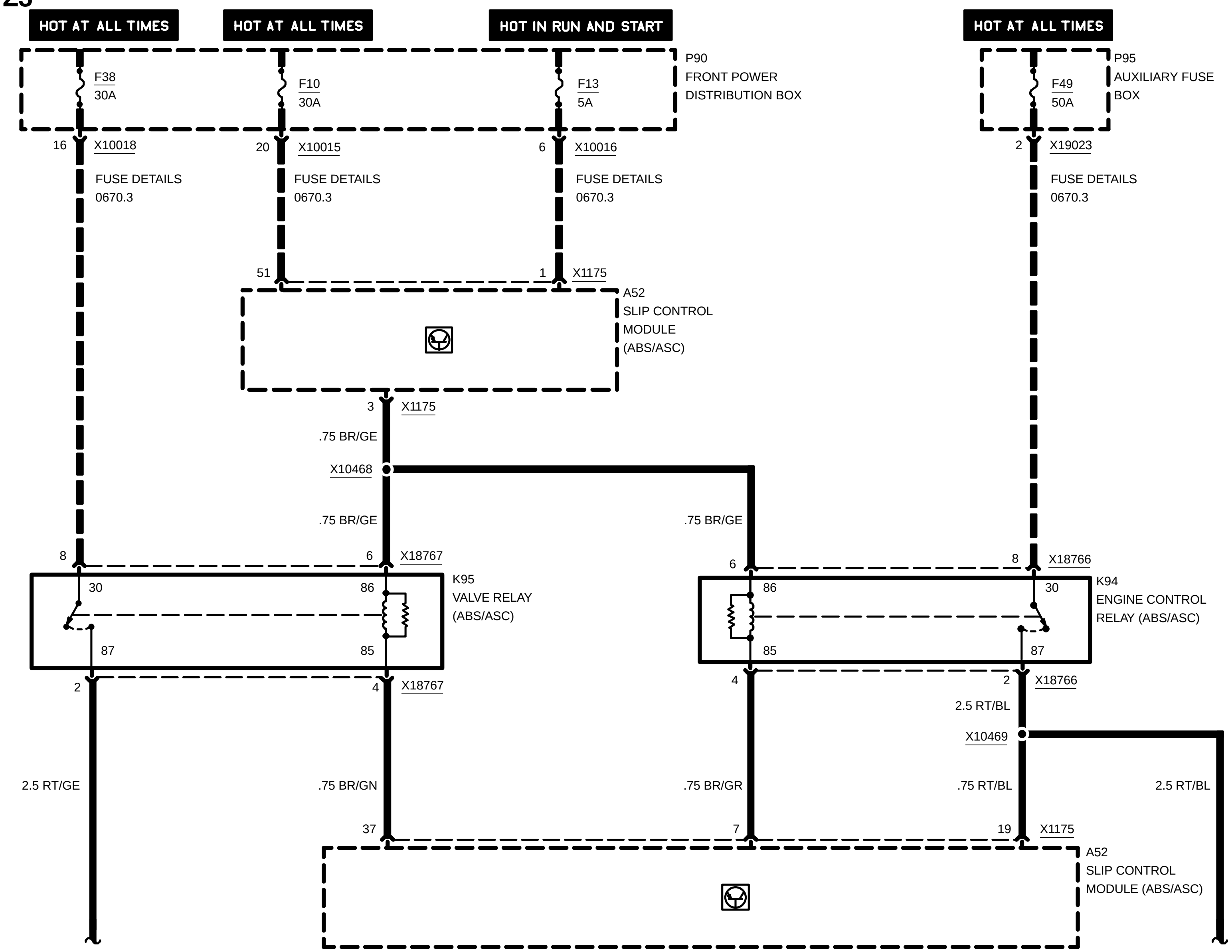
X1170

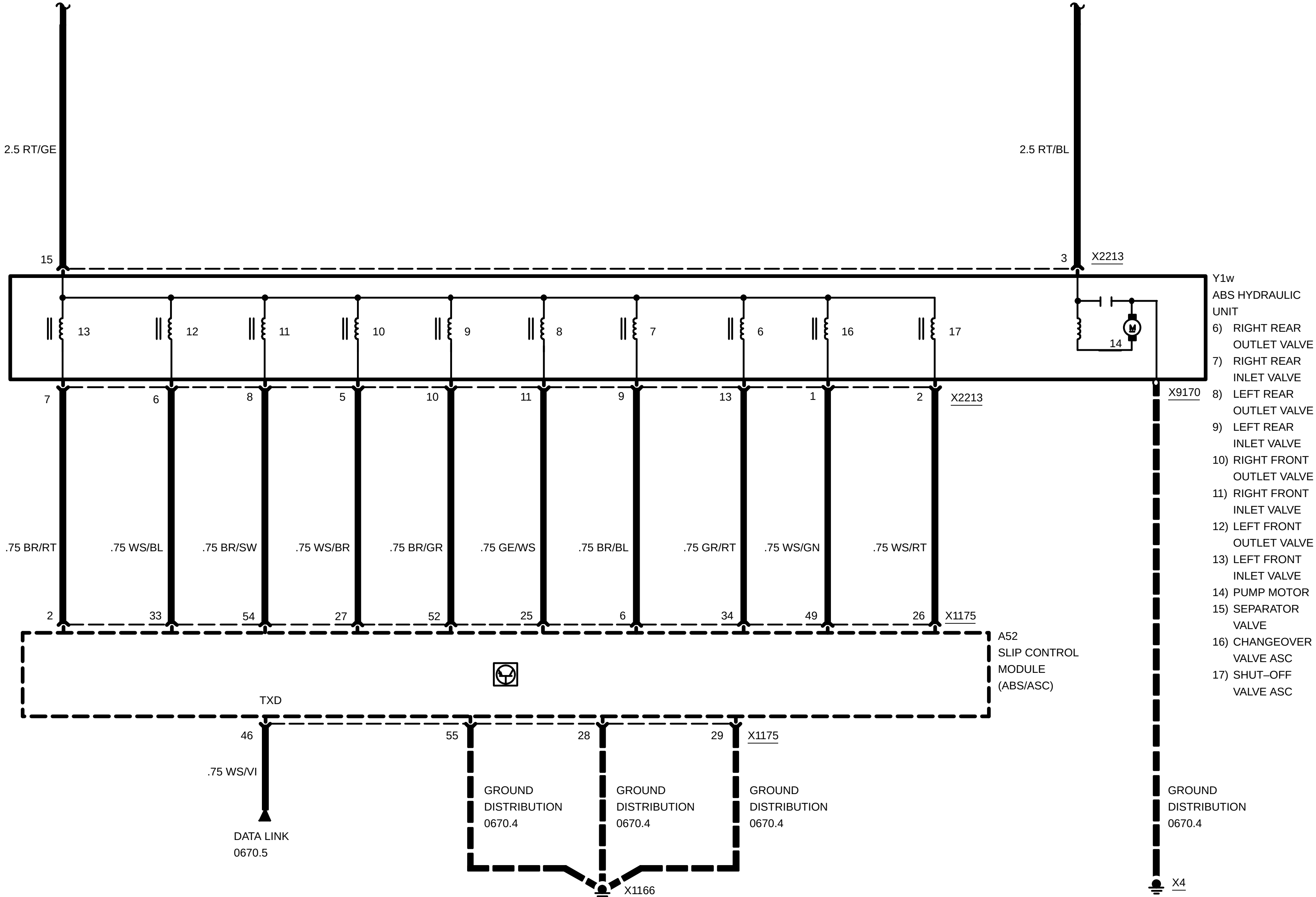
Pin	Type	Signal	Description/Function	Connection
1	M	VL–	Sensor ground	Left front speed sensor (ABS)
2	E	VL+	Speed signal	Left front speed sensor (ABS)
3			Not used	
4	E	15A21	Voltage supply	Fuse 21
5	M	HL–	Sensor ground	Left rear speed sensor (ABS)
6	E	HL+	Speed signal	Left rear speed sensor (ABS)
7	E/A	TXD	TXD signal	Diagnostic link
8	M	31L	Ground	Ground point
9	E	30<10	Voltage supply	Fuse 10
10	E/A	CAN–	CAN bus low	Instrument cluster/engine control module
11	E/A	CAN+	CAN bus high	Instrument cluster/engine control module
12			Not used	
13	E	54	Brake signal	Brake light switch
14	E	ASCS	ASC-ON-signal	ASC switch
15			Not used	
16	A	WLAS	Warning lamp	Instrument cluster
17			Not used	
18			Not used	
19	M	VR–	Sensor ground	Right front speed sensor (ABS)
20	E	VR+	Speed signal	Right front speed sensor (ABS)
21	A	DFAHR	Right rear speed signal	Engine control module (DME)
22	E	HR+	Speed signal	Right rear speed sensor (ABS)
23	M	HR–	Sensor ground	Right rear speed sensor (ABS)
24	M	31L	Ground	Ground point
25	E	30<38	Voltage supply	Fuse 38

E = Input, A = Output, M = Ground

SLIP CONTROL (ABS/ASC)

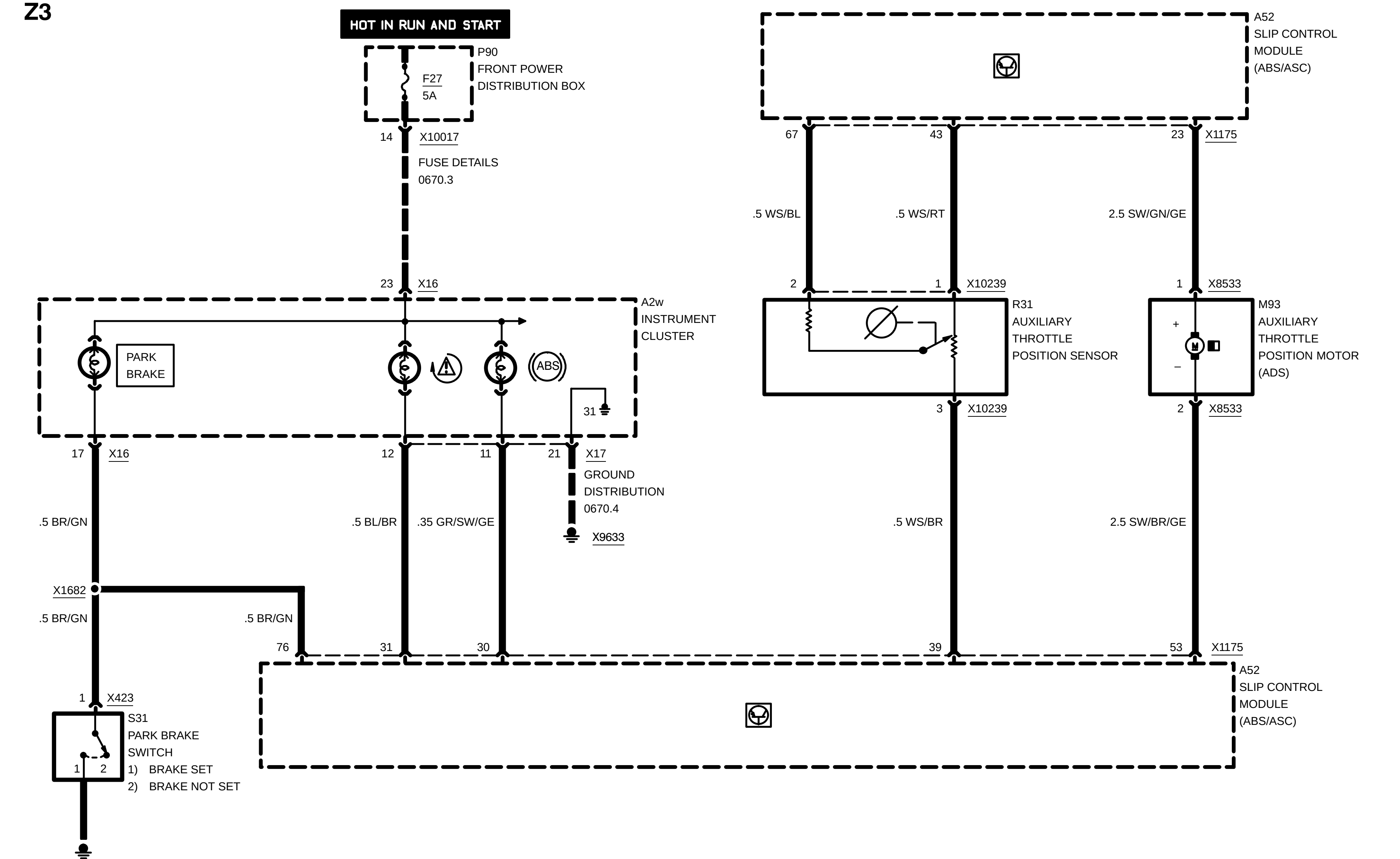
M VERSIONS




2.5 RT/GE
2.5 RT/BL
15
3
X2213
Y1w
ABS HYDRAULIC
UNIT
6) RIGHT REAR OUTLET VALVE
7) RIGHT REAR INLET VALVE
8) LEFT REAR OUTLET VALVE
9) LEFT REAR INLET VALVE
10) RIGHT FRONT OUTLET VALVE
11) RIGHT FRONT INLET VALVE
12) LEFT FRONT OUTLET VALVE
13) LEFT FRONT INLET VALVE
14) PUMP MOTOR
15) SEPARATOR VALVE
16) CHANGEOVER VALVE ASC
17) SHUT–OFF VALVE ASC
13
12
11
10
9
8
7
6
16
17
14
7
6
8
5
10
11
9
13
1
2
X2213
X9170
.75 BR/RT
.75 WS/BL
.75 BR/SW
.75 WS/BR
.75 BR/GR
.75 GE/WS
.75 BR/BL
.75 GR/RT
.75 WS/GN
.75 WS/RT
2
33
54
27
52
25
6
34
49
26
X1175
A52
SLIP CONTROL
MODULE
(ABS/ASC)
TXD
46
55
28
29
X1175
.75 WS/VI
DATA LINK
0670.5
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1166
X4

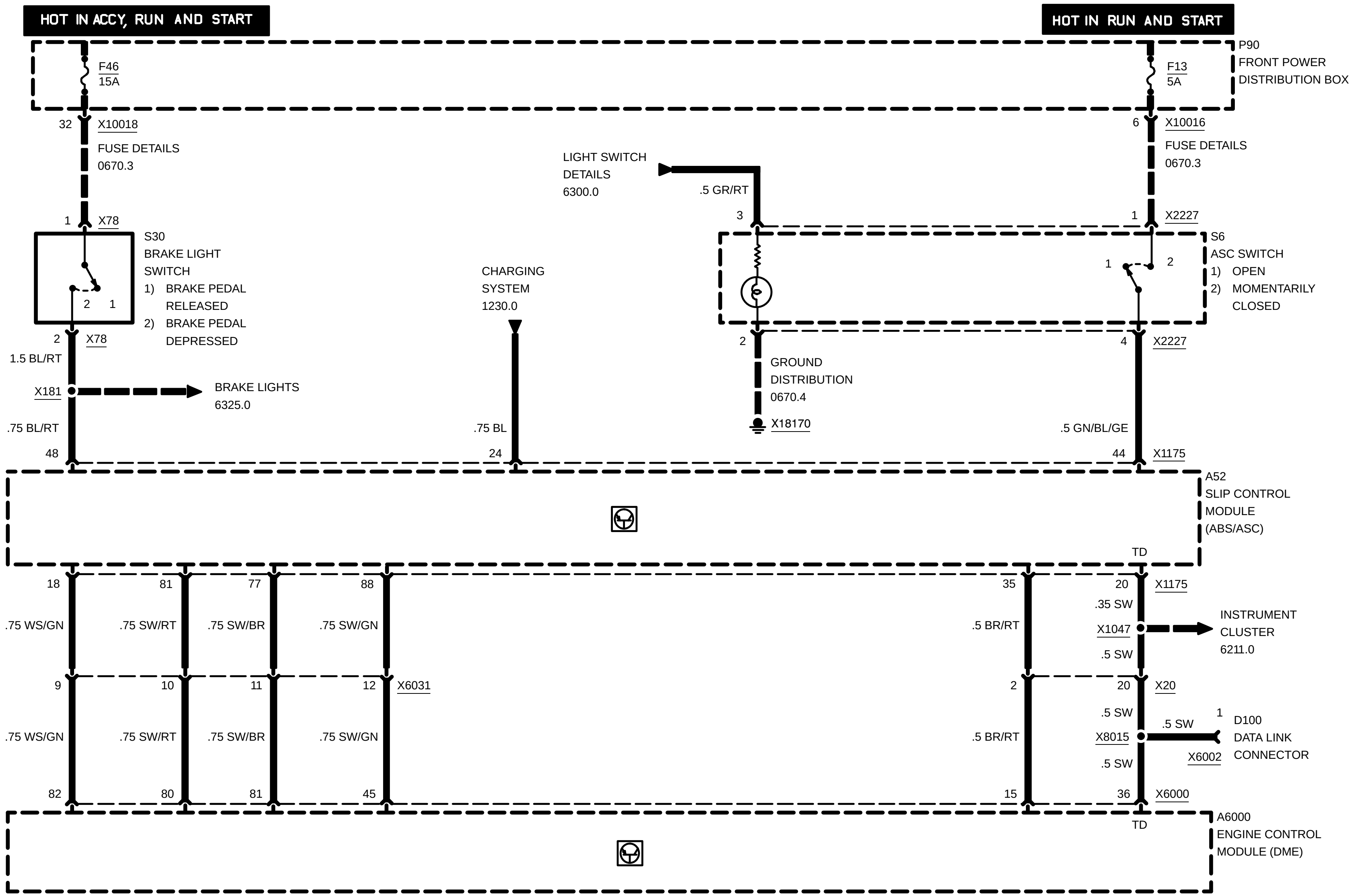
SLIP CONTROL (ABS/ASC)

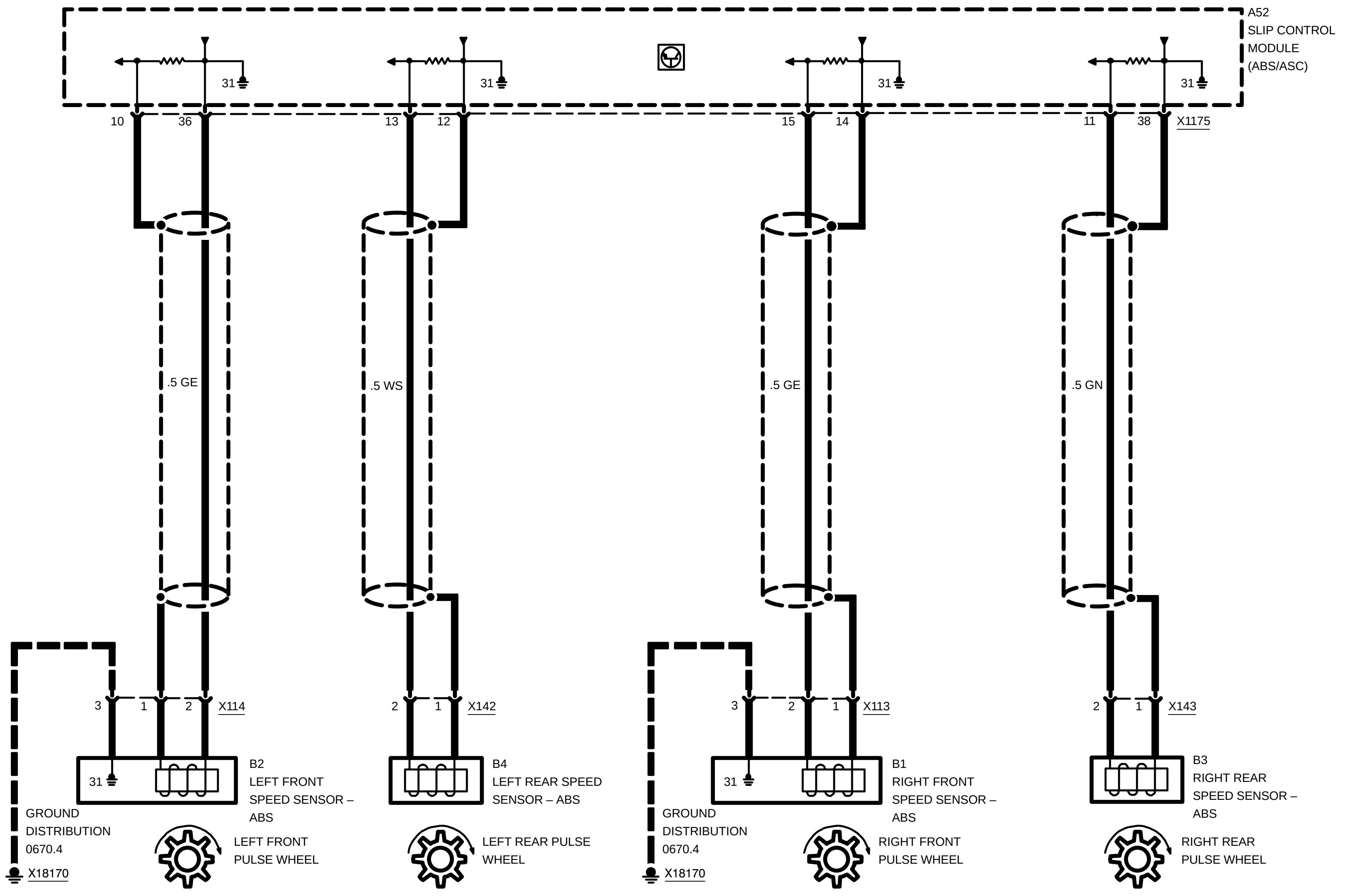
M VERSIONS



SLIP CONTROL (ABS/ASC)

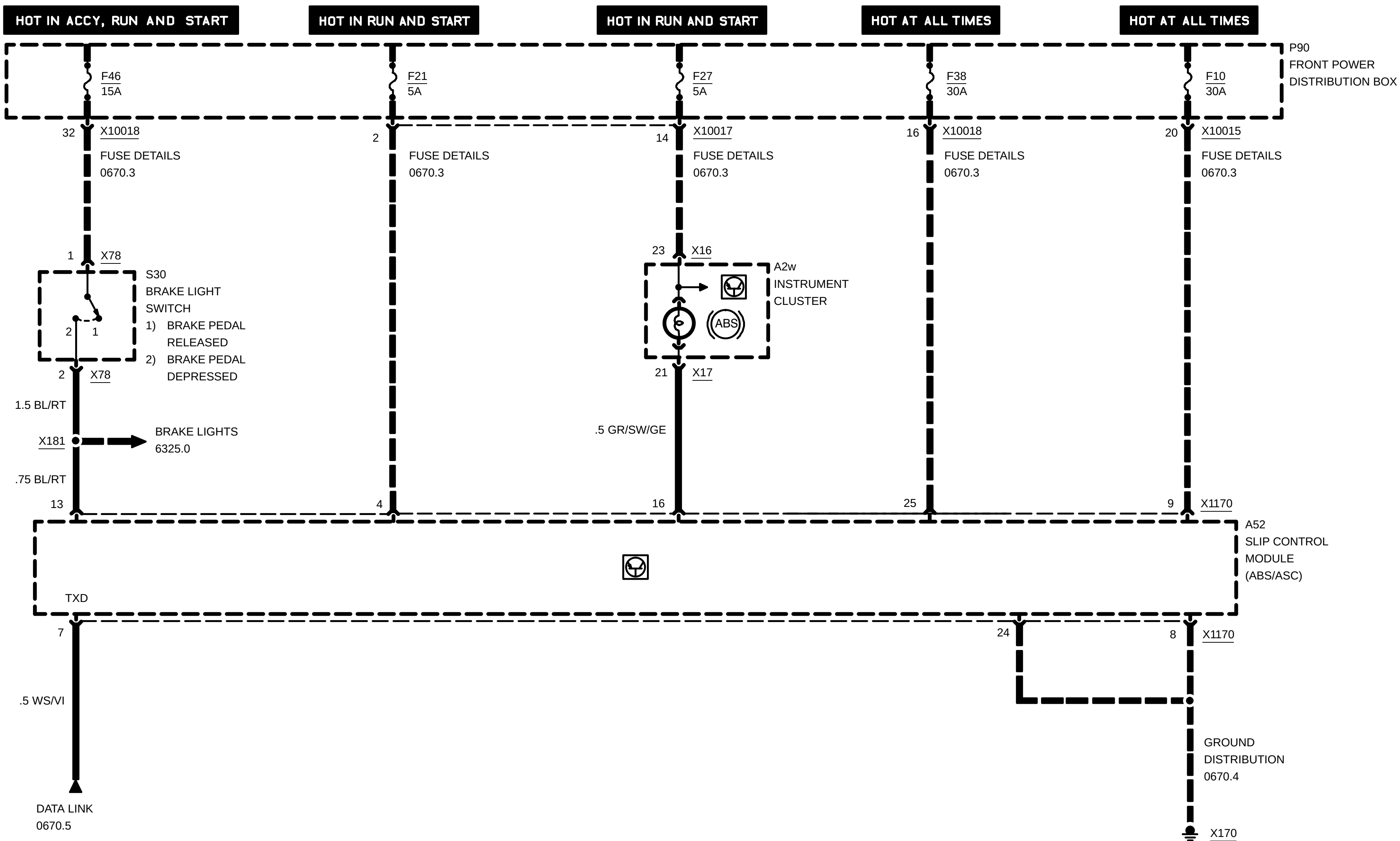
M VERSIONS




A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
10
36
13
12
15
14
11
38
X1175
.5 GE
.5 WS
.5 GE
.5 GN
3
1
2
X114
2
1
X142
3
2
1
X113
2
1
X143
31
B2
LEFT FRONT
SPEED SENSOR –
ABS
B4
LEFT REAR SPEED
SENSOR – ABS
B1
RIGHT FRONT
SPEED SENSOR –
ABS
B3
RIGHT REAR
SPEED SENSOR –
ABS
GROUND
DISTRIBUTION
0670.4
X18170
LEFT FRONT
PULSE WHEEL
LEFT REAR PULSE
WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL

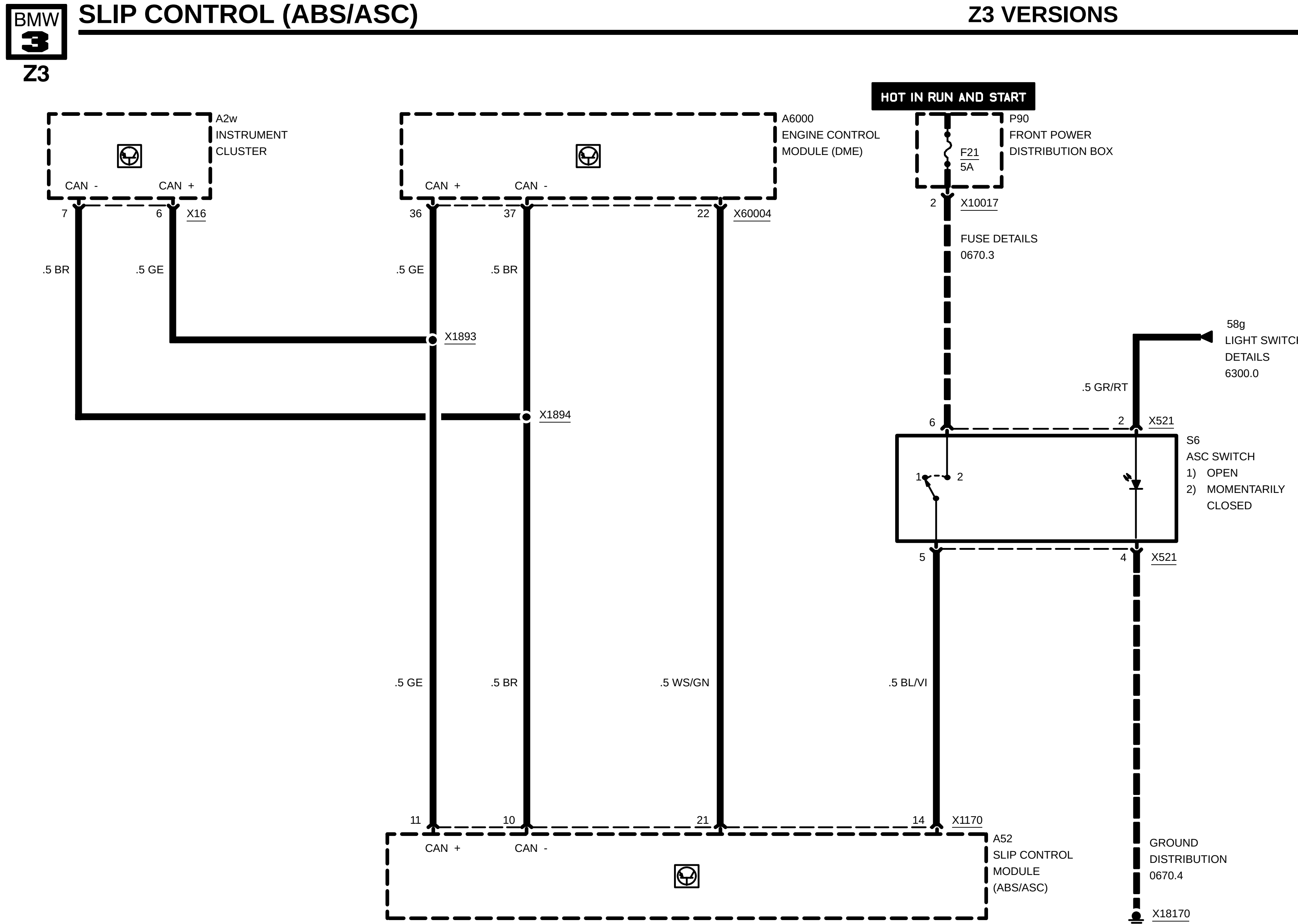
SLIP CONTROL (ABS/ASC)

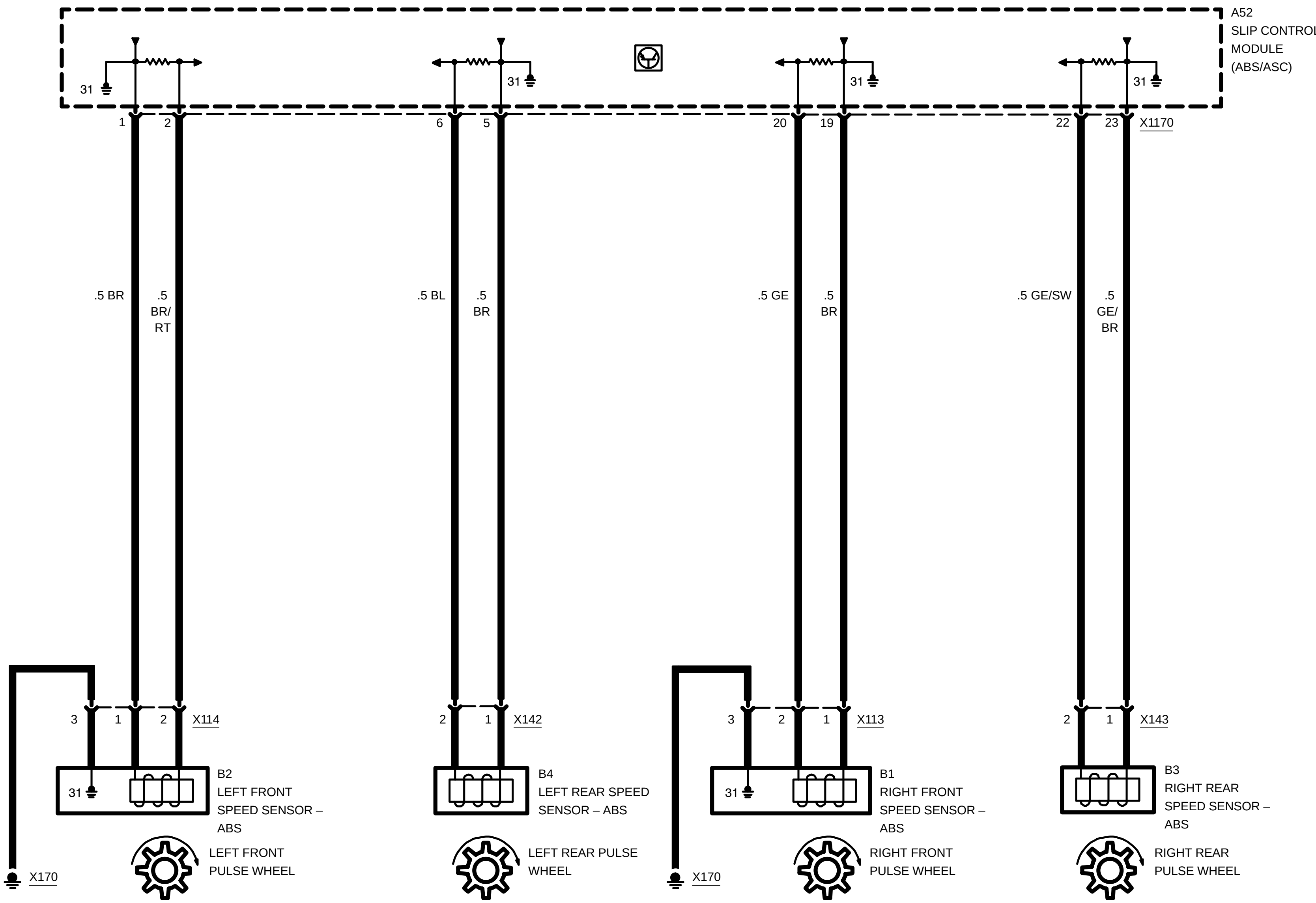
Z3 VERSIONS



SLIP CONTROL (ABS/ASC)

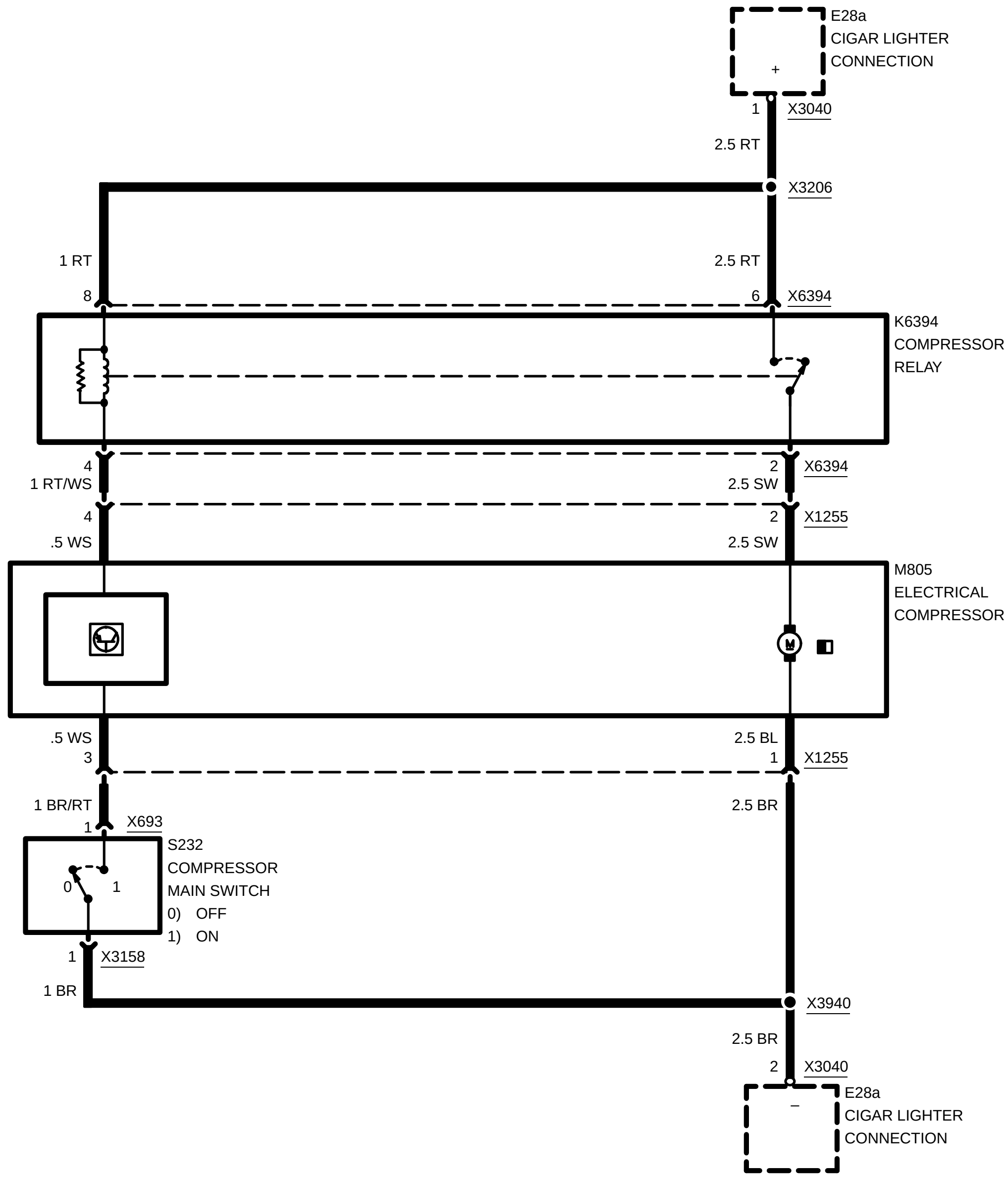
Z3 VERSIONS




A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
1
2
6
5
20
19
22
23
X1170
.5 BR
.5
BR/
RT
.5 BL
.5
BR
.5 GE
.5
BR
.5 GE/SW
.5
GE/
BR
3
1
2
X114
2
1
X142
3
2
1
X113
2
1
X143
B2
LEFT FRONT
SPEED SENSOR –
ABS
B4
LEFT REAR SPEED
SENSOR – ABS
B1
RIGHT FRONT
SPEED SENSOR –
ABS
B3
RIGHT REAR
SPEED SENSOR –
ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR PULSE
WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL
X170
X170

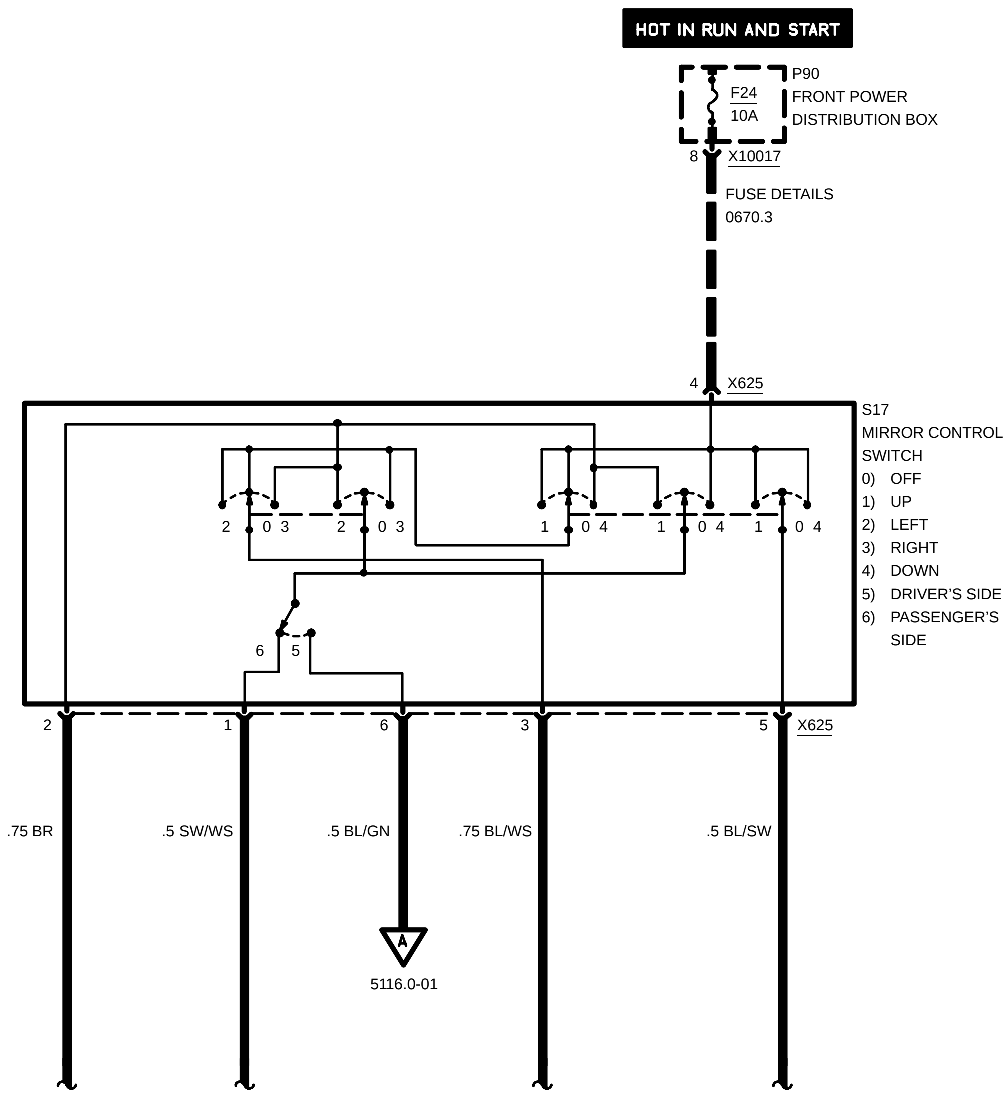
3614.0 TIRE INFLATION SYSTEM

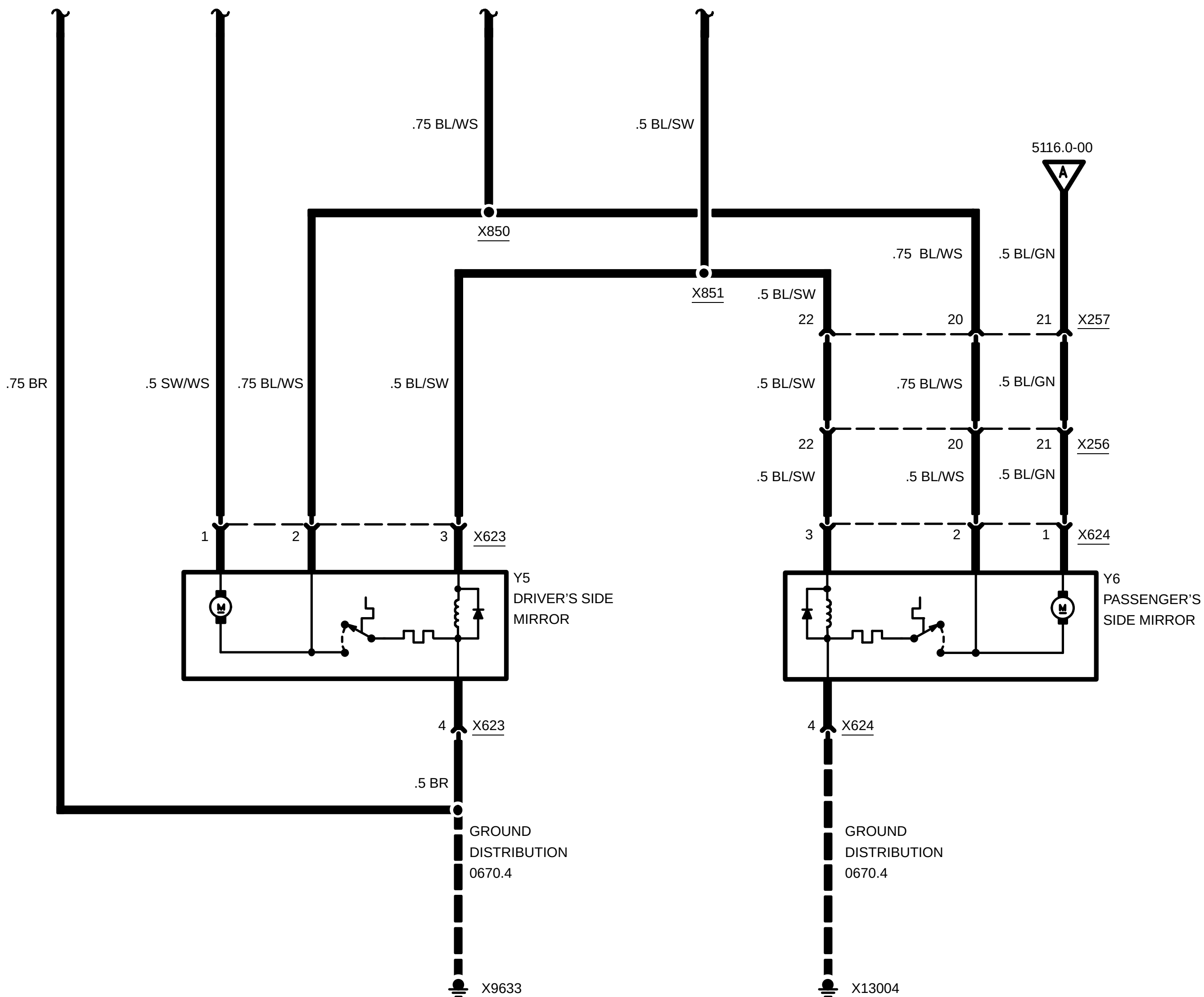
M VERSIONS



5116.0 POWER MIRRORS

OUTSIDE MIRROR

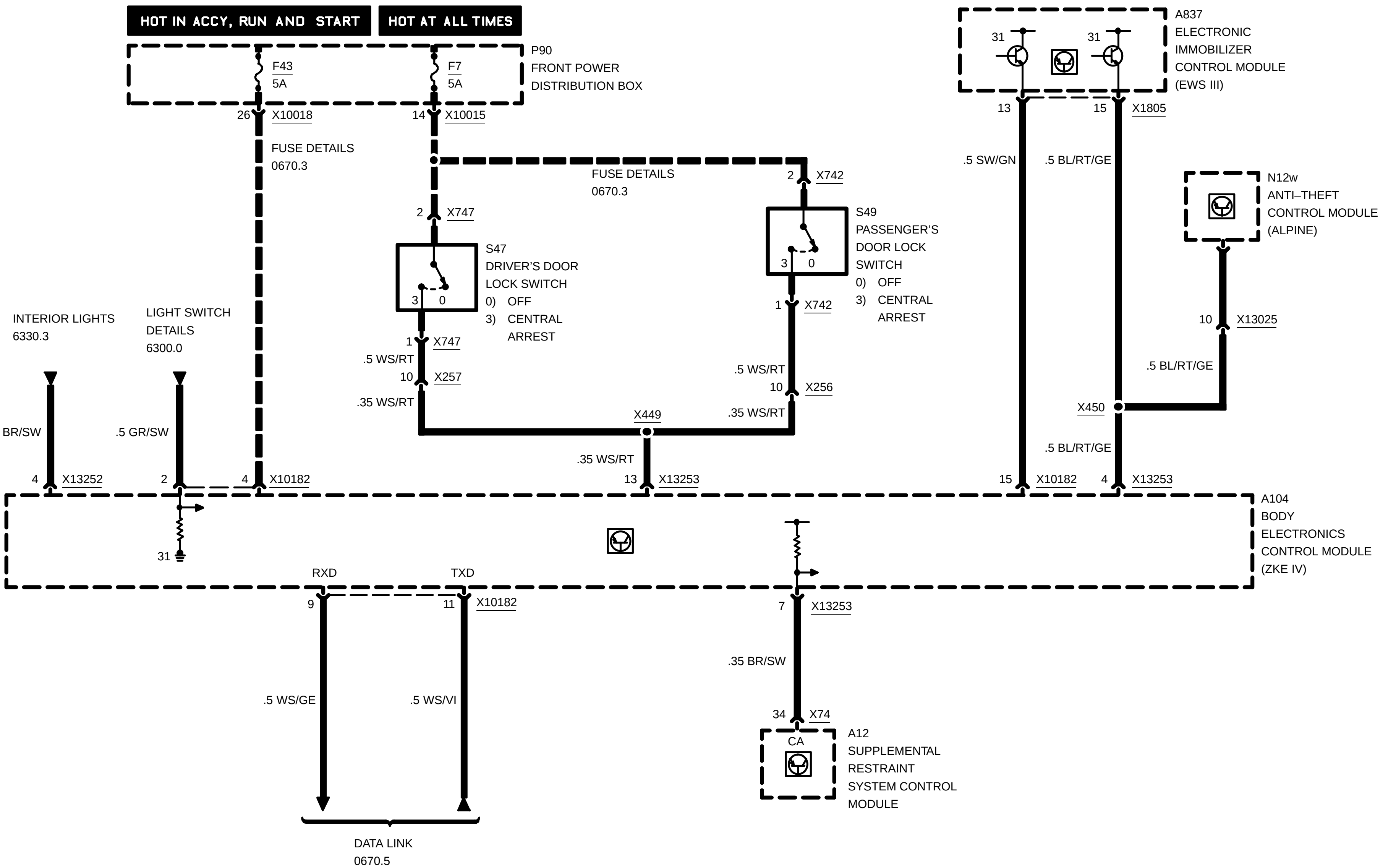



.75 BL/WS
.5 BL/SW
5116.0-00
A
X850
X851
.75 BL/WS
.5 BL/GN
.5 BL/SW
22
20
21
X257
.75 BR
.5 SW/WS
.75 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X9633
X13004

BMW 3 Z3

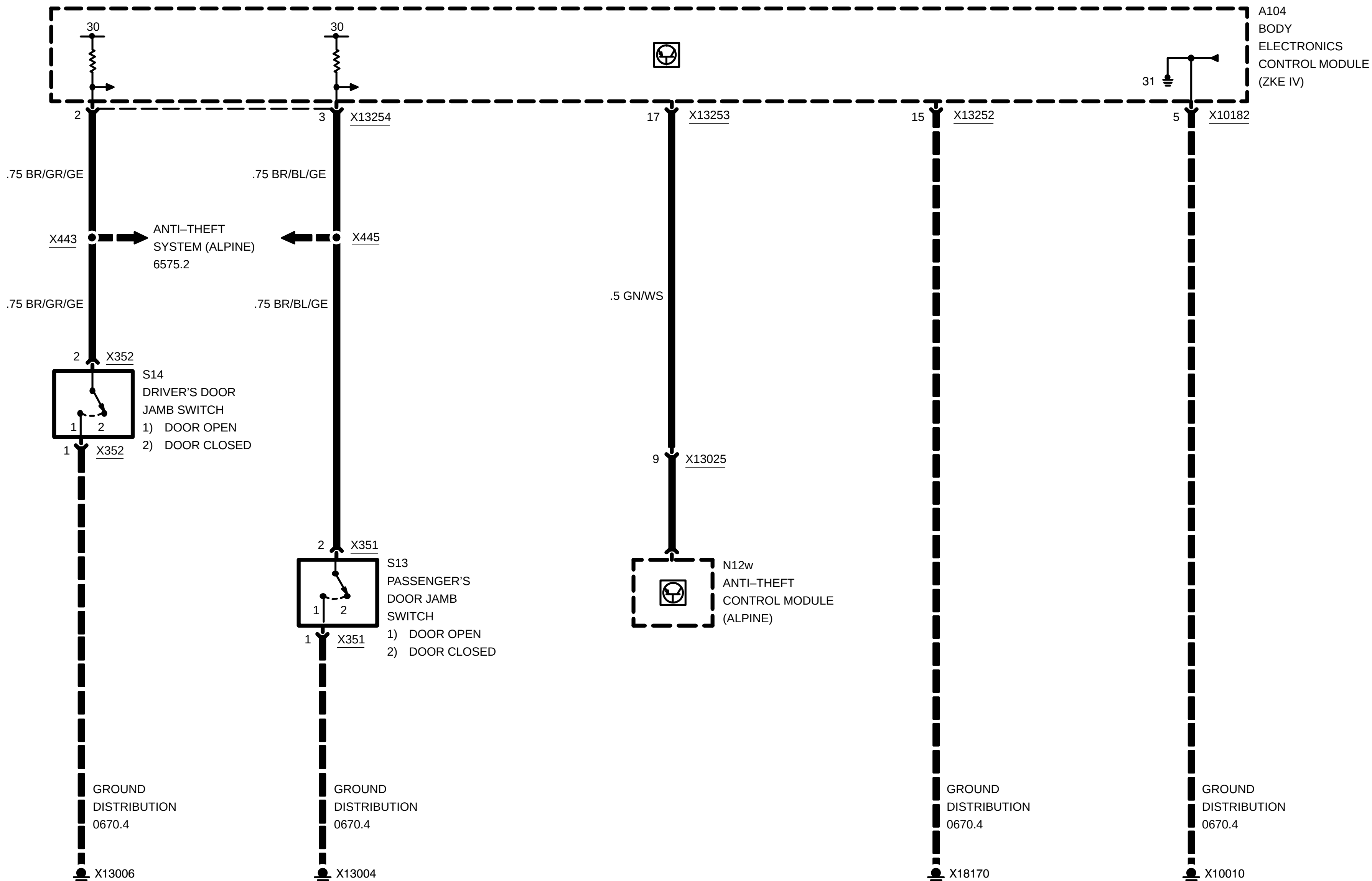
5126.0 ZKE CENTRAL LOCKING (ZV)

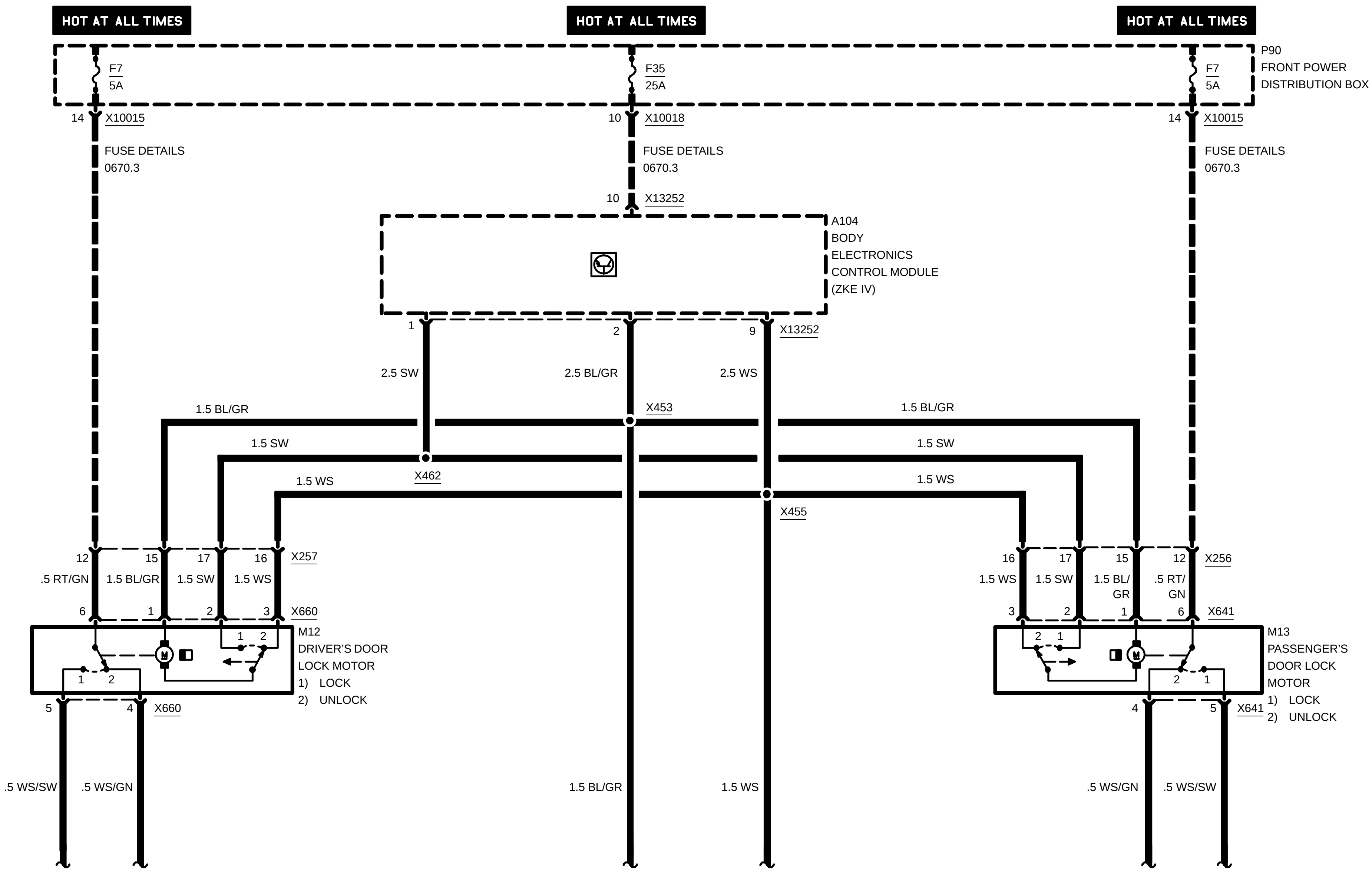
INPUTS, DRIVE–AWAY PROTECTION

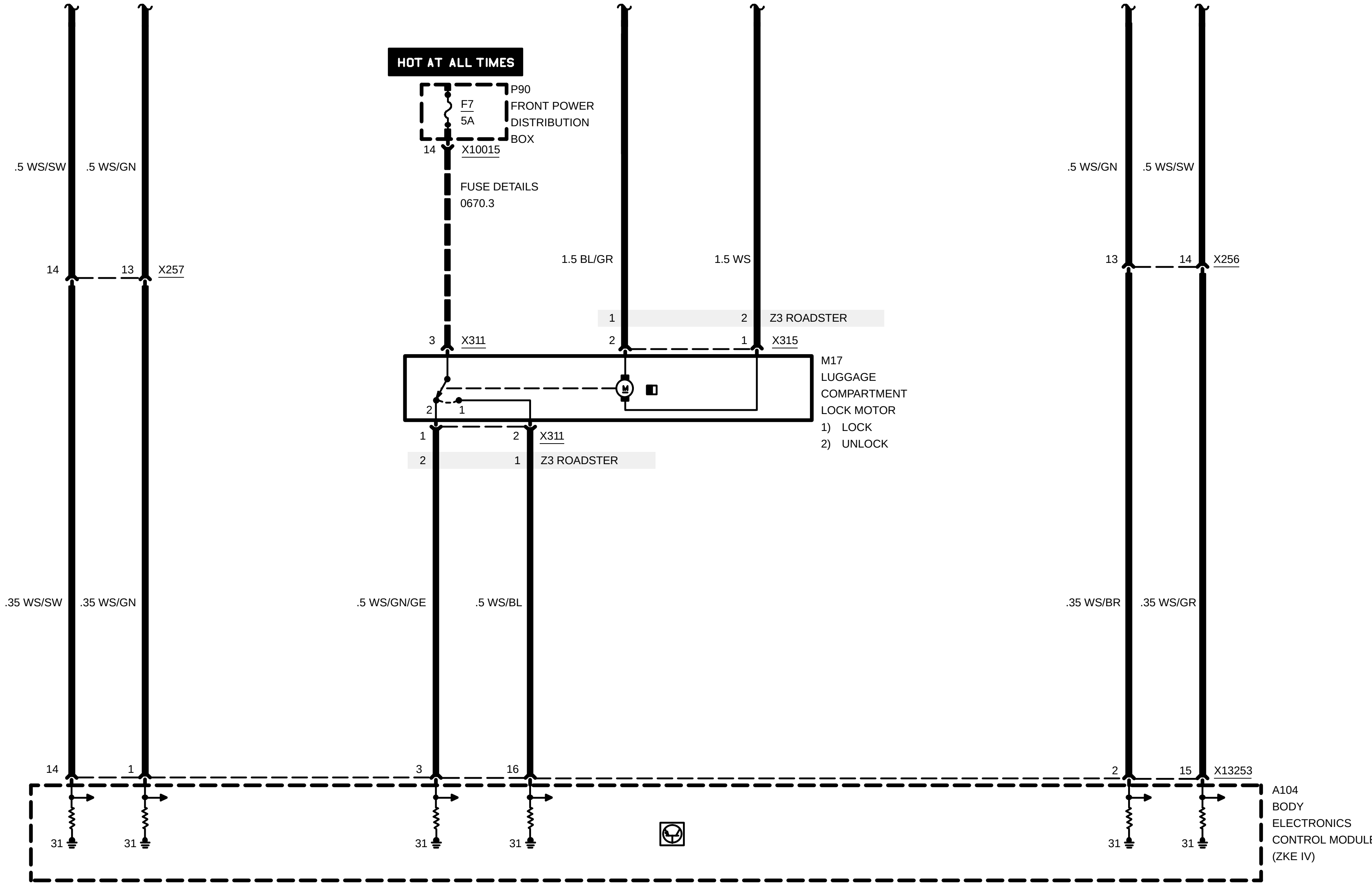


ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS




HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
F7
5A
F35
25A
F7
5A
P90
FRONT POWER
DISTRIBUTION BOX
14 X10015
10 X10018
14 X10015
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
10 X13252
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
1
2
9 X13252
2.5 SW
2.5 BL/GR
2.5 WS
1.5 BL/GR
X453
1.5 BL/GR
1.5 SW
1.5 SW
X462
1.5 WS
1.5 WS
X455
12 15 17 16 X257
.5 RT/GN
1.5 BL/GR
1.5 SW
1.5 WS
6 1 2 3 X660
M12
DRIVER'S DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
5 4 X660
16 17 15 12 X256
1.5 WS
1.5 SW
1.5 BL/GR
.5 RT/GN
3 2 1 6 X641
M13
PASSENGER'S
DOOR LOCK
MOTOR
1) LOCK
2) UNLOCK
4 5 X641
.5 WS/SW
.5 WS/GN
1.5 BL/GR
1.5 WS
.5 WS/GN
.5 WS/SW



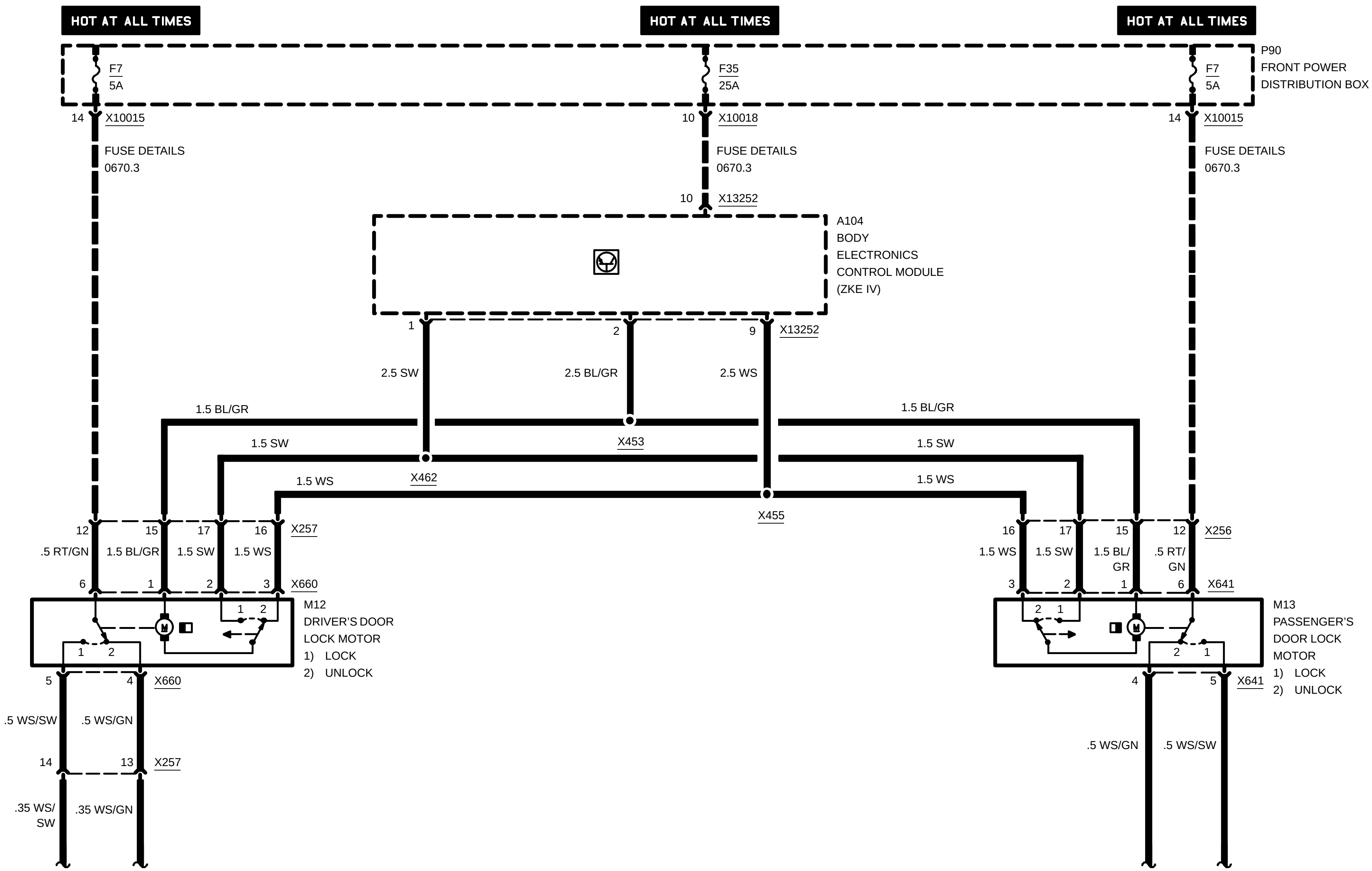
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
14
X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
14
13
X257
1.5 BL/GR
1.5 WS
1
2
Z3 ROADSTER
3
X311
2
1
X315
M17
LUGGAGE
COMPARTMENT
LOCK MOTOR
1) LOCK
2) UNLOCK
2
1
1
2
X311
2
1
Z3 ROADSTER
.5 WS/GN
.5 WS/SW
13
14
X256
.35 WS/SW
.35 WS/GN
.5 WS/GN/GE
.5 WS/BL
.35 WS/BR
.35 WS/GR
14
1
3
16
2
15
X13253
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
31
31
31
31
31
31

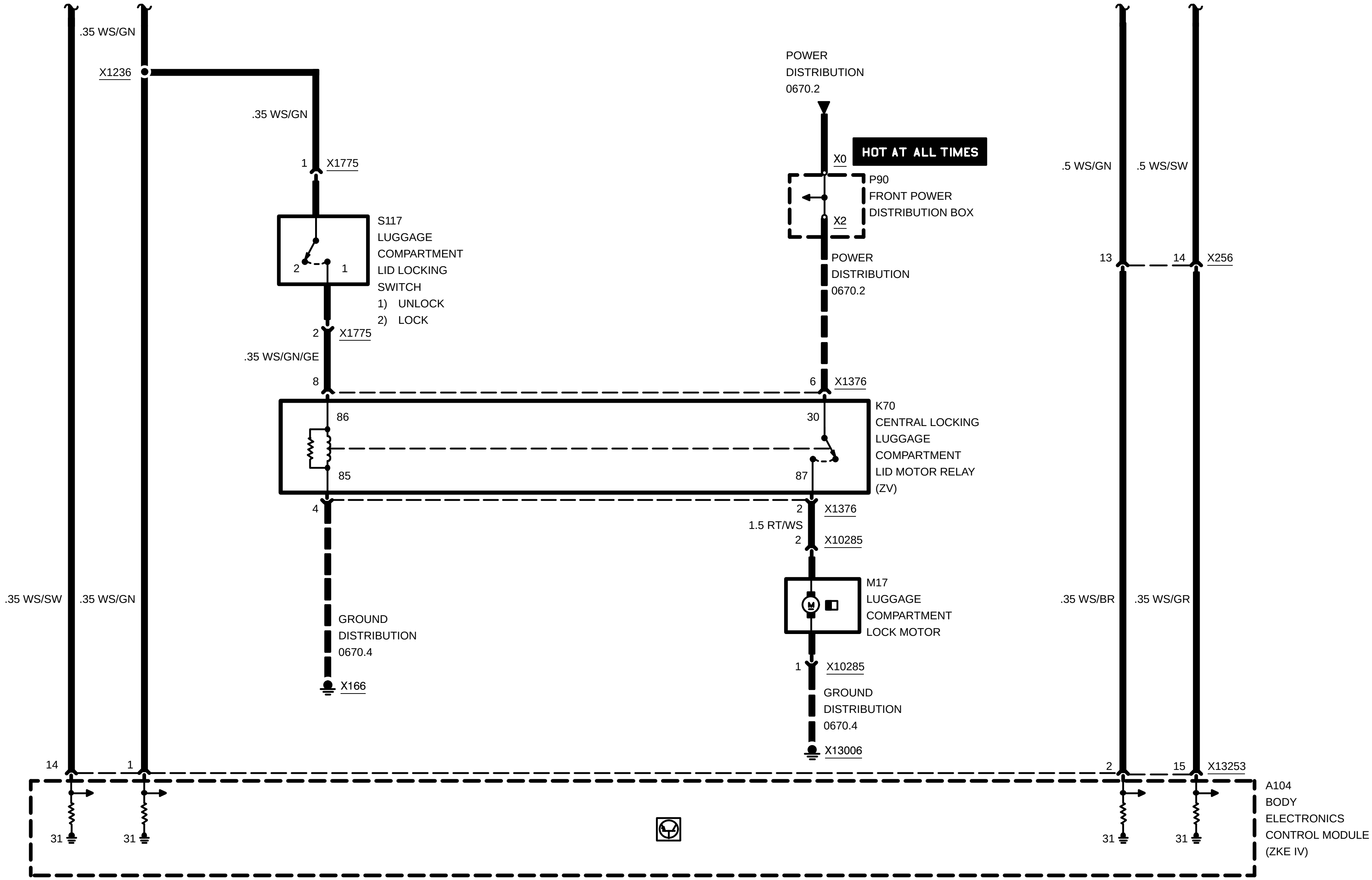
ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

BMW 3 Z3

M COUPE

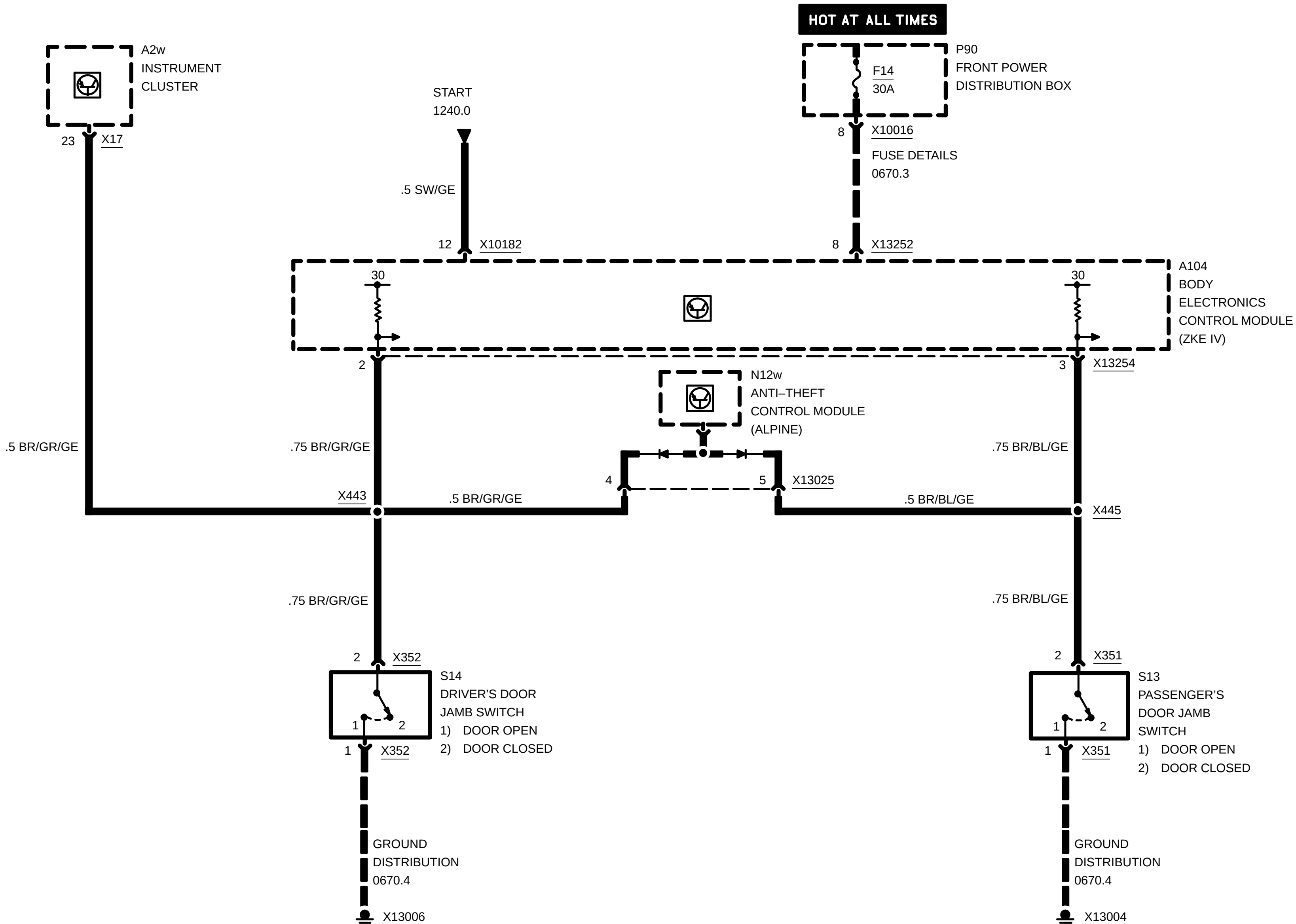



.35 WS/GN
X1236
.35 WS/GN
1
X1775
S117
LUGGAGE
COMPARTMENT
LID LOCKING
SWITCH
1) UNLOCK
2) LOCK
2
1
2
X1775
.35 WS/GN/GE
8
POWER
DISTRIBUTION
0670.2
HOT AT ALL TIMES
X0
P90
FRONT POWER
DISTRIBUTION BOX
X2
POWER
DISTRIBUTION
0670.2
6
X1376
K70
CENTRAL LOCKING
LUGGAGE
COMPARTMENT
LID MOTOR RELAY
(ZV)
86
85
30
87
4
2
X1376
1.5 RT/WS
2
X10285
M17
LUGGAGE
COMPARTMENT
LOCK MOTOR
1
X10285
GROUND
DISTRIBUTION
0670.4
X13006
GROUND
DISTRIBUTION
0670.4
X166
.5 WS/GN
.5 WS/SW
13
14
X256
.35 WS/SW
.35 WS/GN
.35 WS/BR
.35 WS/GR
14
1
2
15
X13253
31
31
31
31
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)

BMW 3 Z3

5133.0 ZKE POWER WINDOWS (FH)

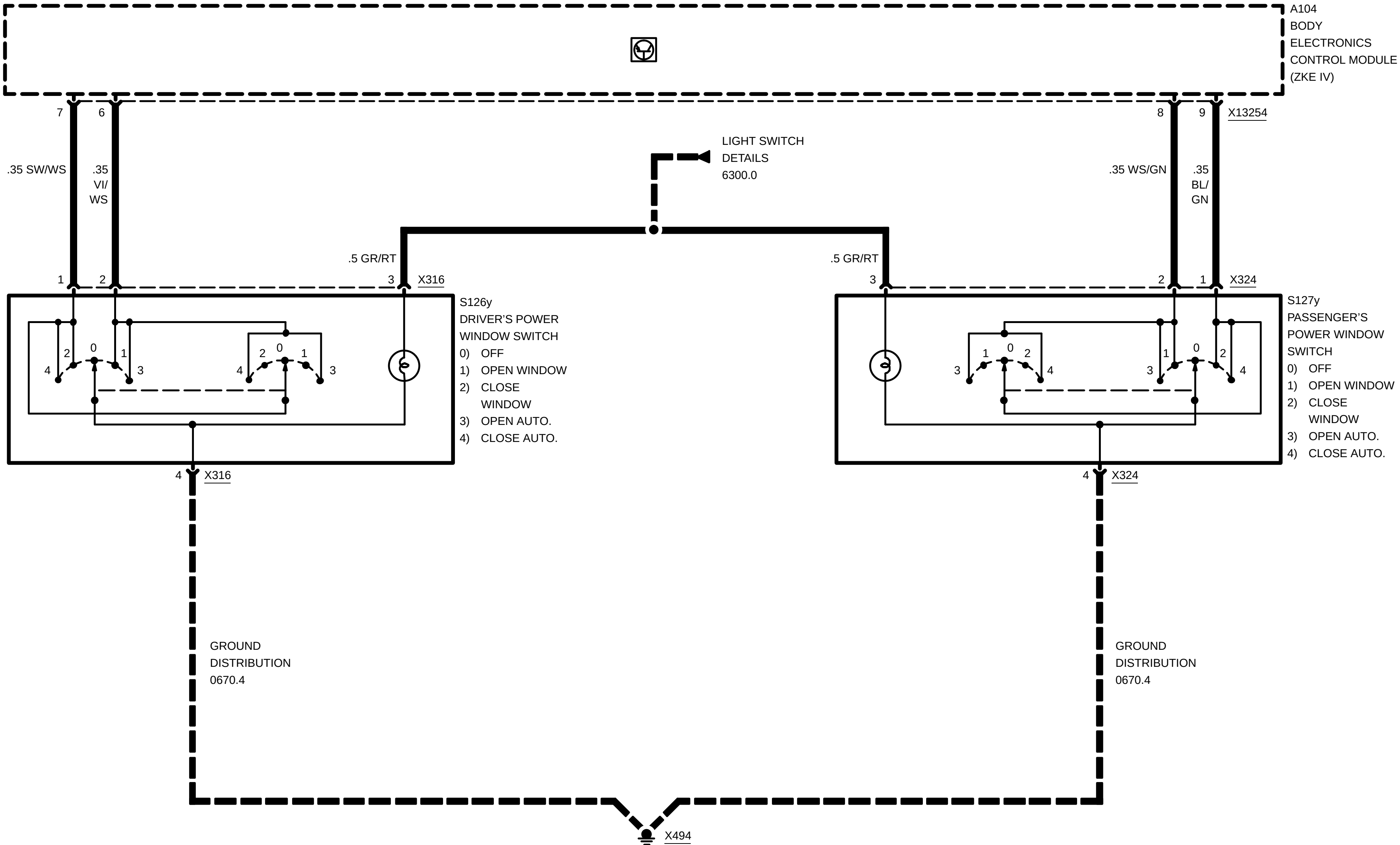
INPUT DETAILS



ZKE POWER WINDOWS (FH)

INPUT DETAILS

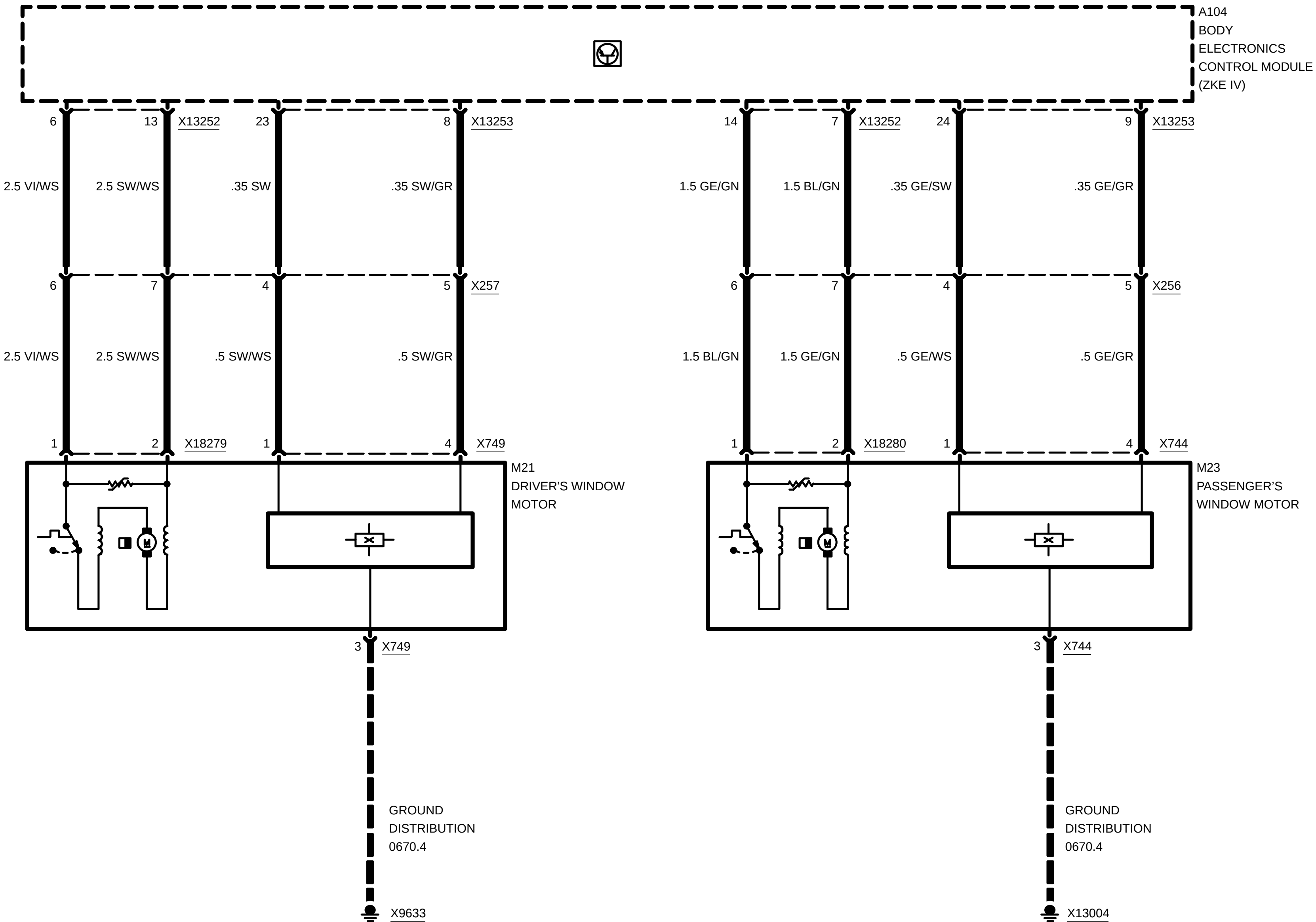
BMW 3
Z3



BMW 3 Z3

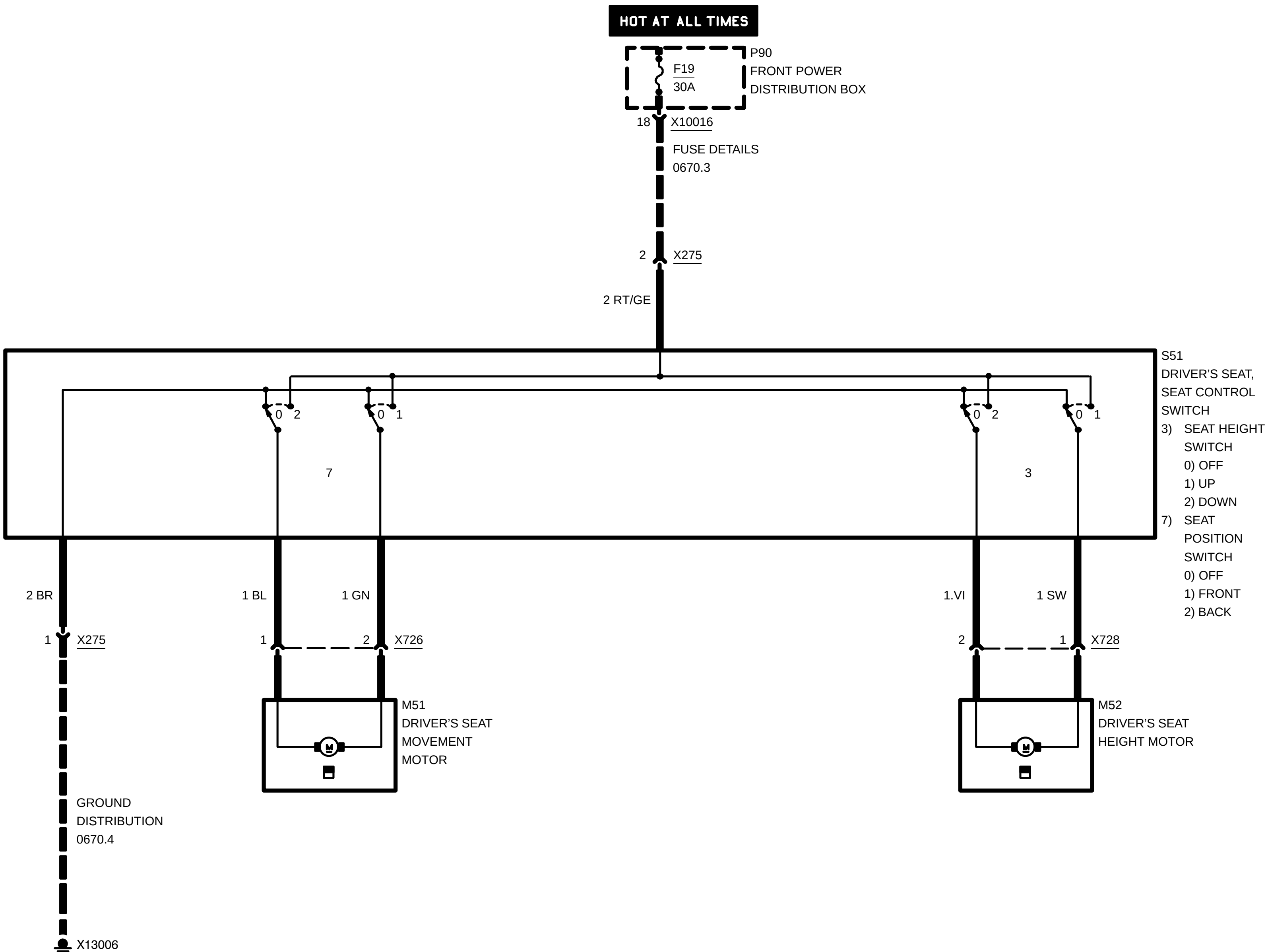
ZKE POWER WINDOWS (FH)

OUTPUT DETAILS



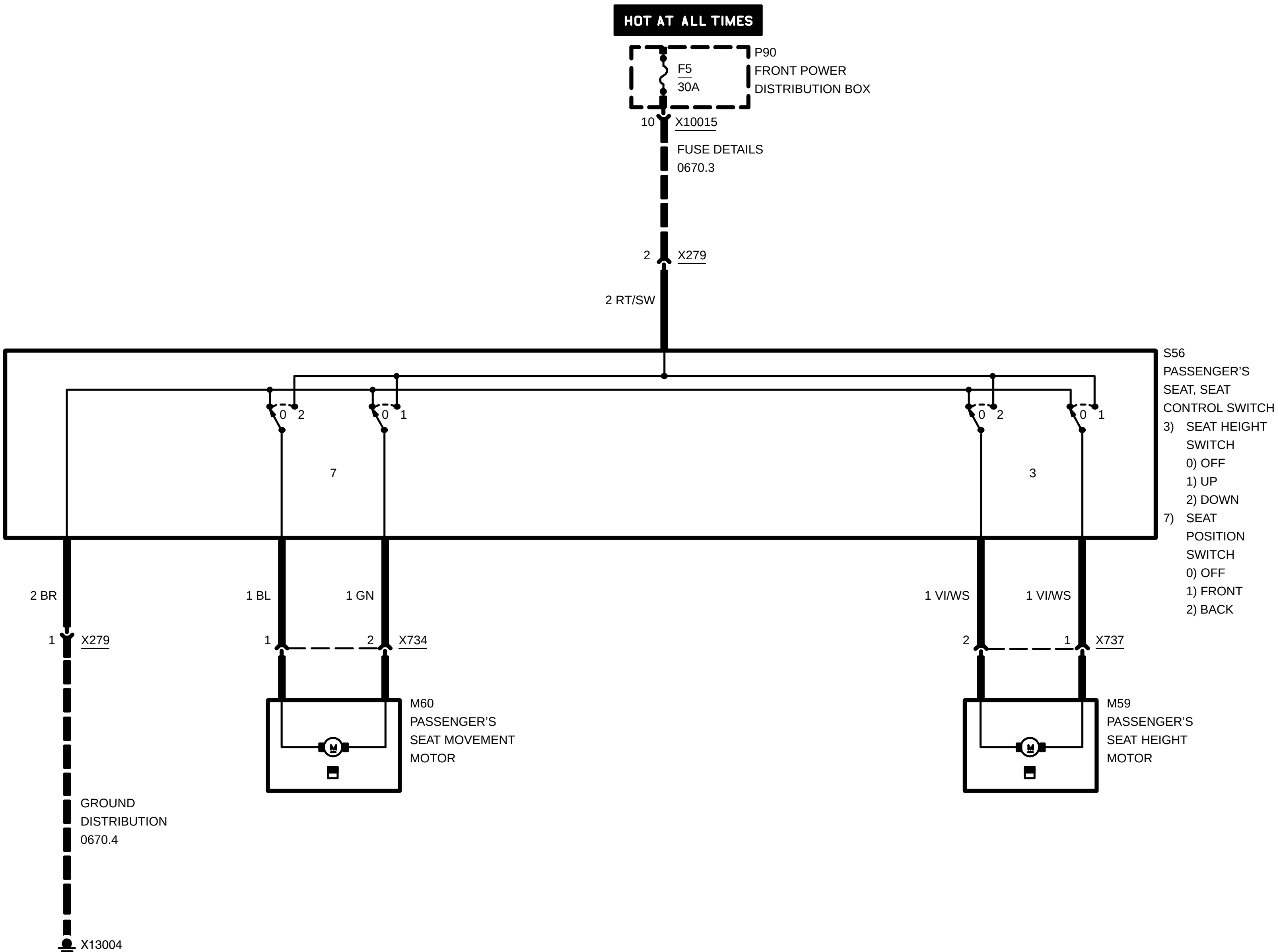
5200.0 POWER SEATS

DRIVER'S SEAT



POWER SEATS

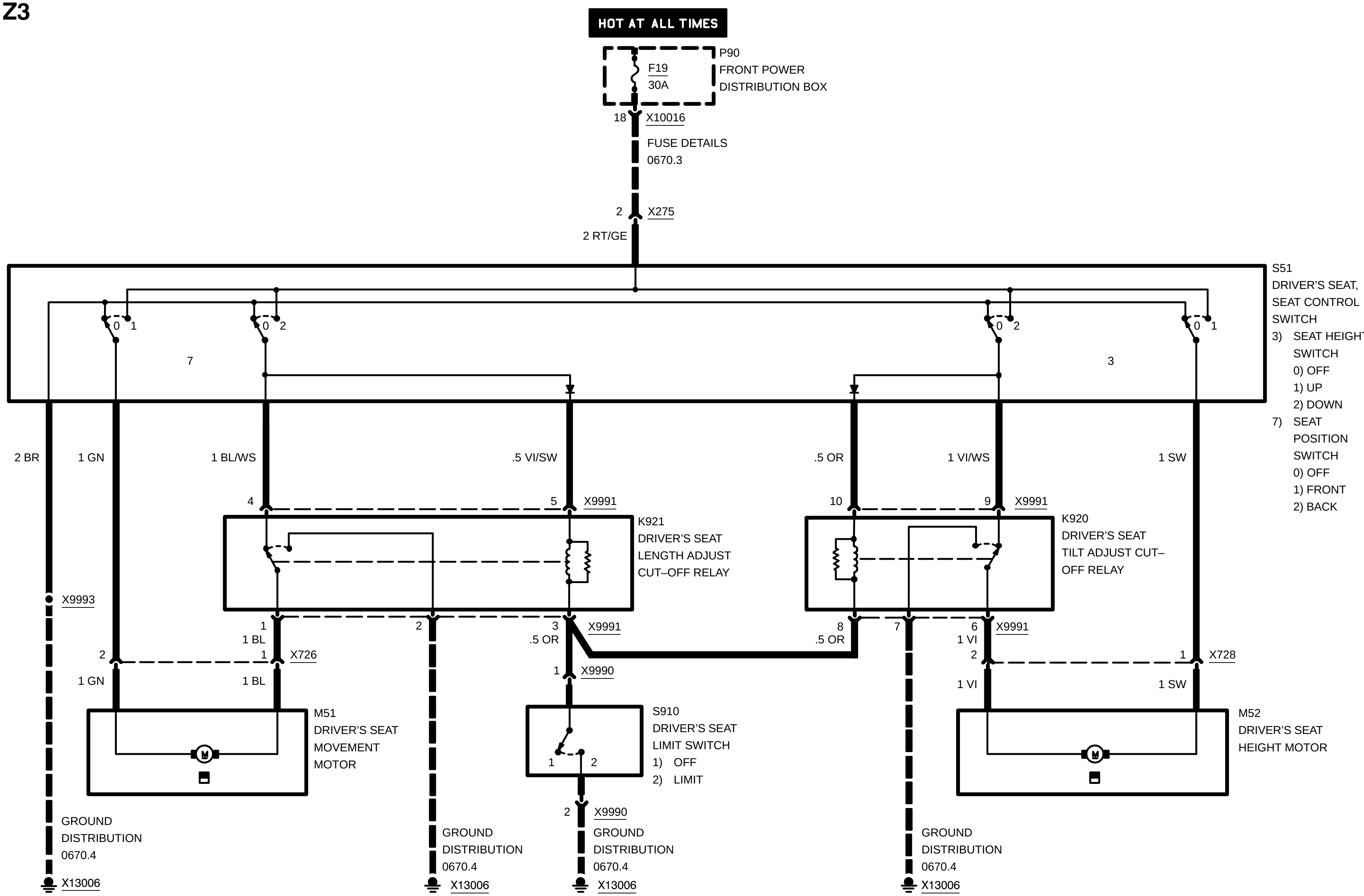
PASSENGER'S SEAT

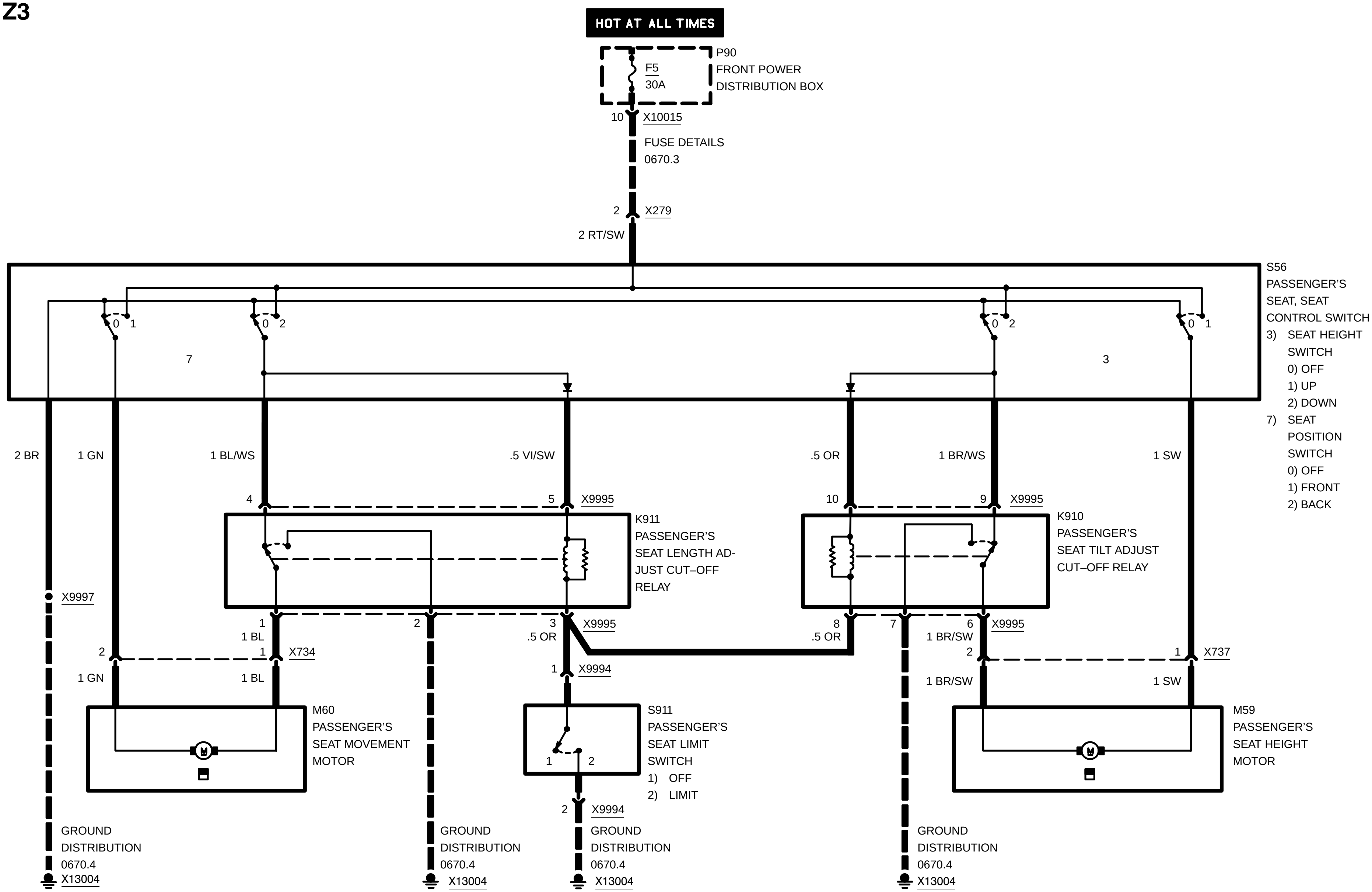


POWER SEATS

SPORT SEATS

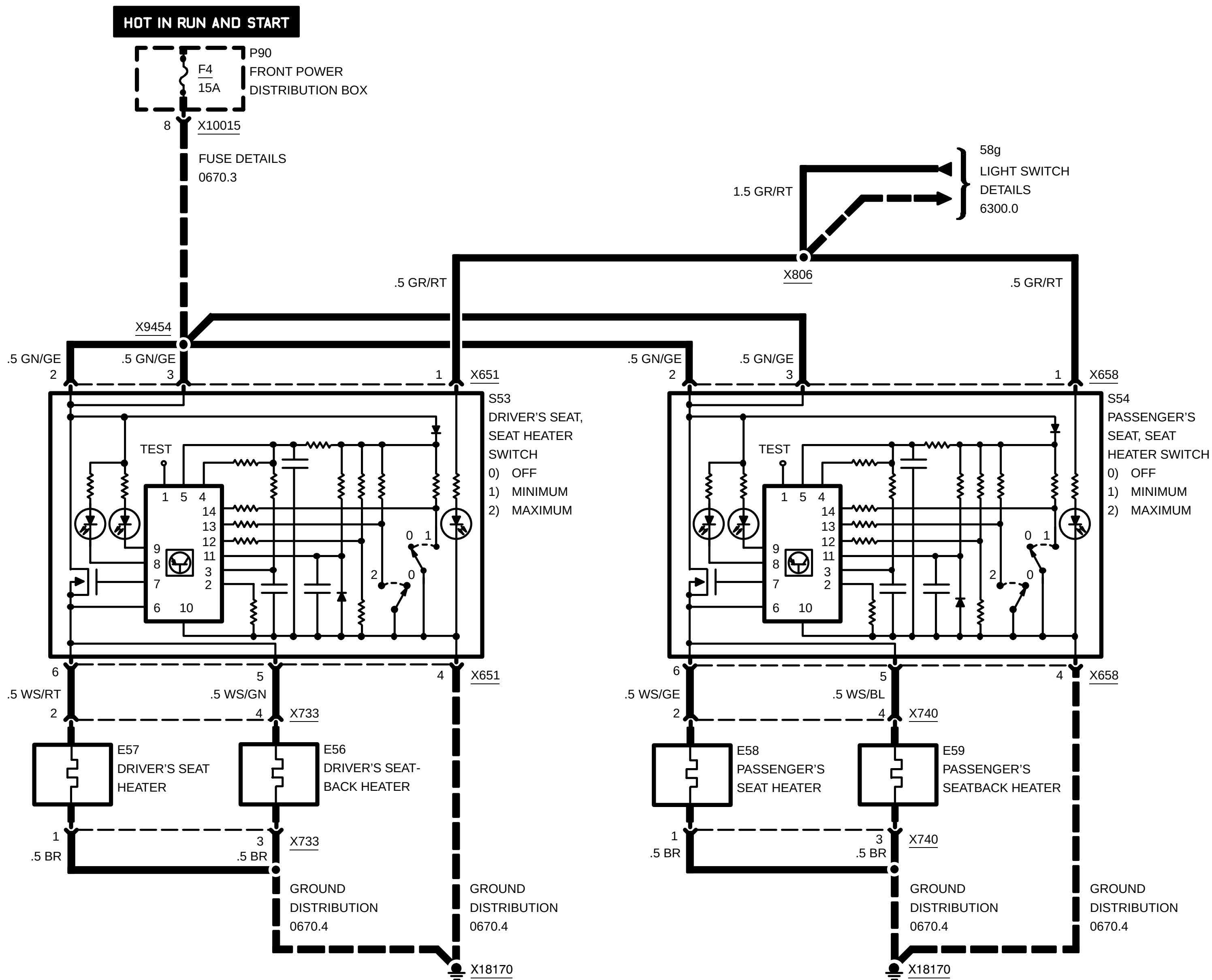
DRIVER'S SEAT




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F5
30A
10 X10015
FUSE DETAILS
0670.3
2 X279
2 RT/SW
S56
PASSENGER'S
SEAT, SEAT
CONTROL SWITCH
3) SEAT HEIGHT
SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT
POSITION
SWITCH
0) OFF
1) FRONT
2) BACK
2 BR
1 GN
1 BL/WS
.5 VI/SW
.5 OR
1 BR/WS
1 SW
X9995
K911
PASSENGER'S
SEAT LENGTH AD-
JUST CUT–OFF
RELAY
K910
PASSENGER'S
SEAT TILT ADJUST
CUT–OFF RELAY
X9997
1 BL
.5 OR
1 BR/SW
X734
X737
X9994
M60
PASSENGER'S
SEAT MOVEMENT
MOTOR
S911
PASSENGER'S
SEAT LIMIT
SWITCH
1) OFF
2) LIMIT
M59
PASSENGER'S
SEAT HEIGHT
MOTOR
GROUND
DISTRIBUTION
0670.4
X13004

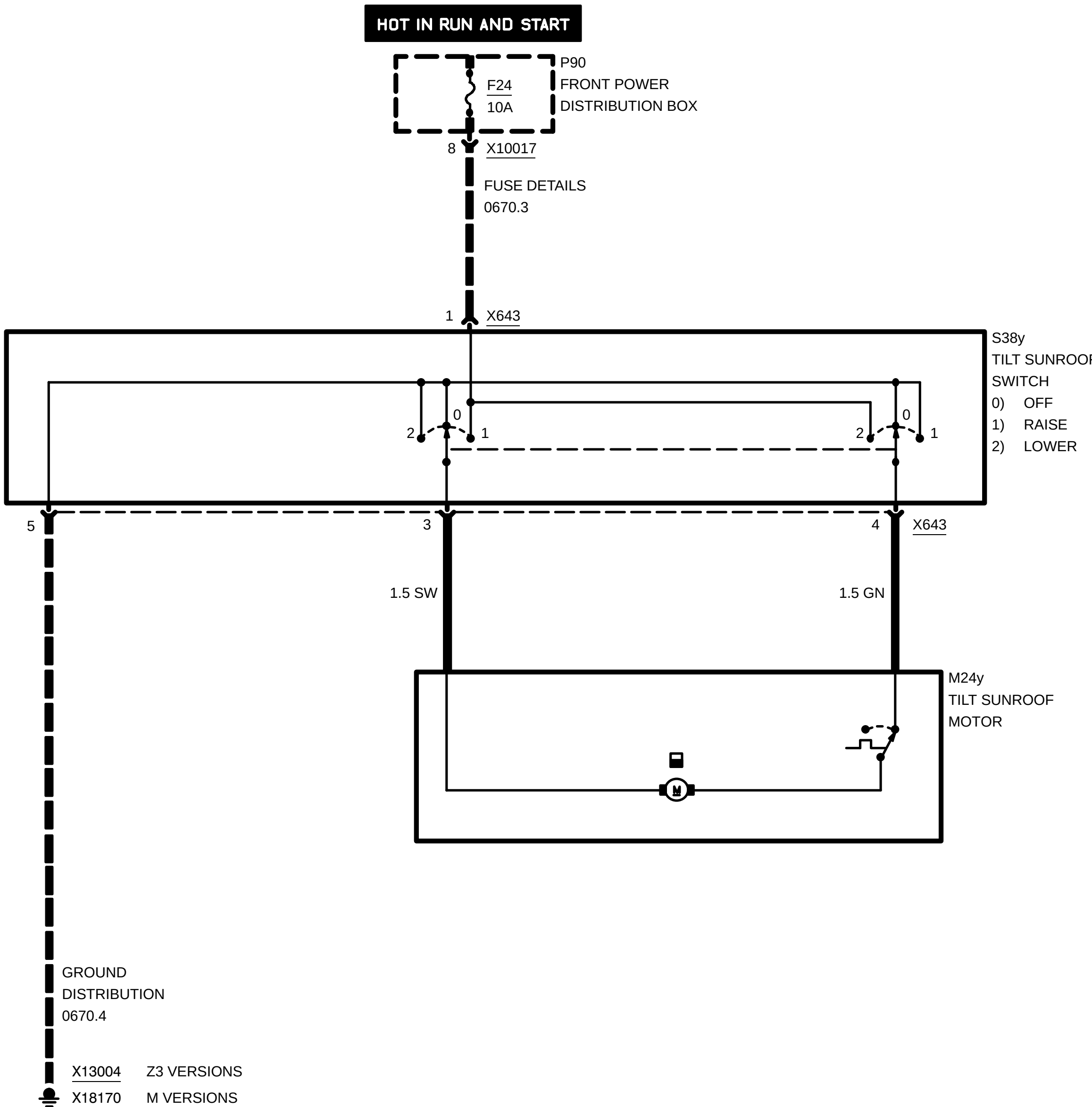
BMW 3 Z3

5203.0 HEATED SEATS



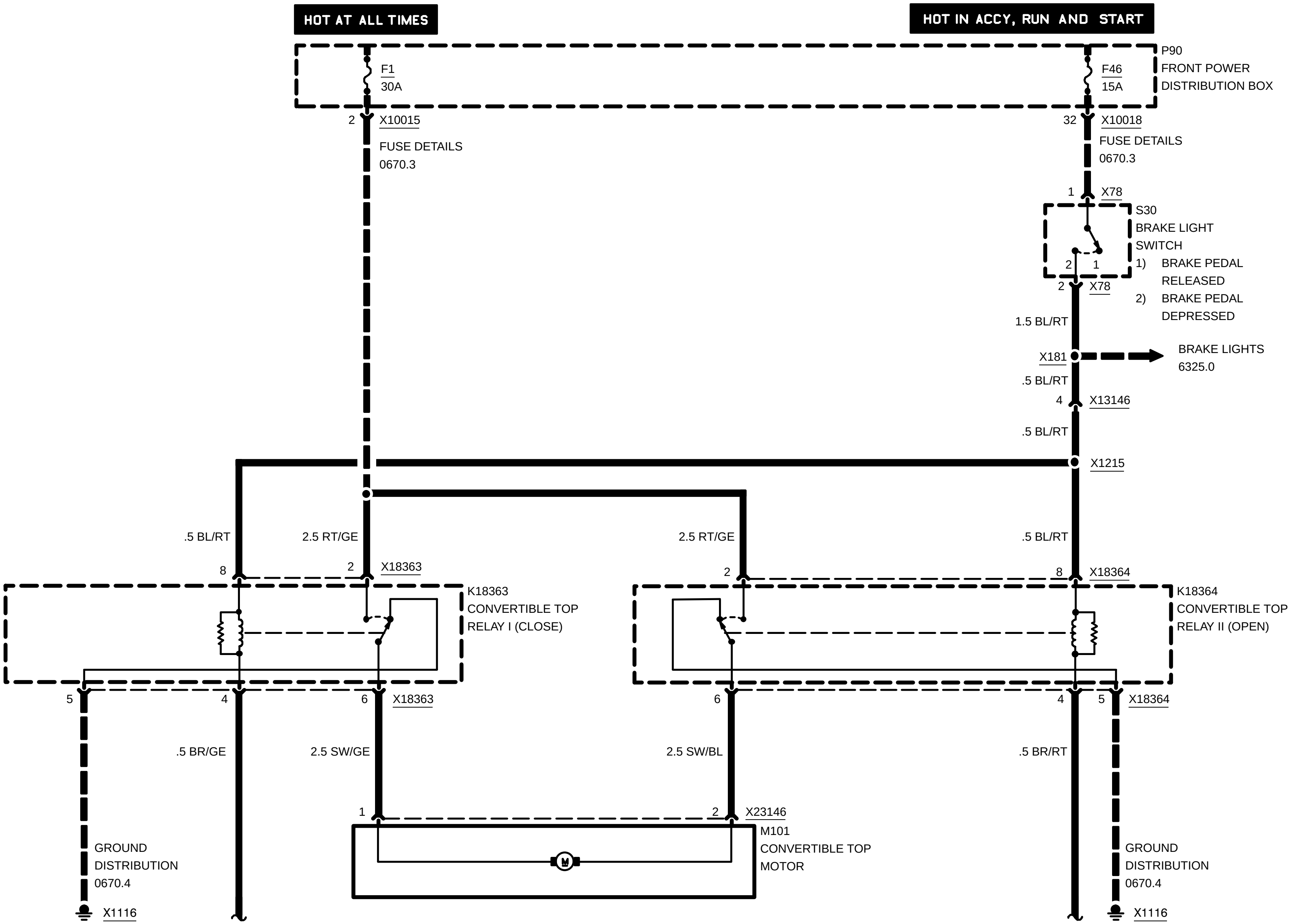
03/00 — 5203.0-00 — 1999

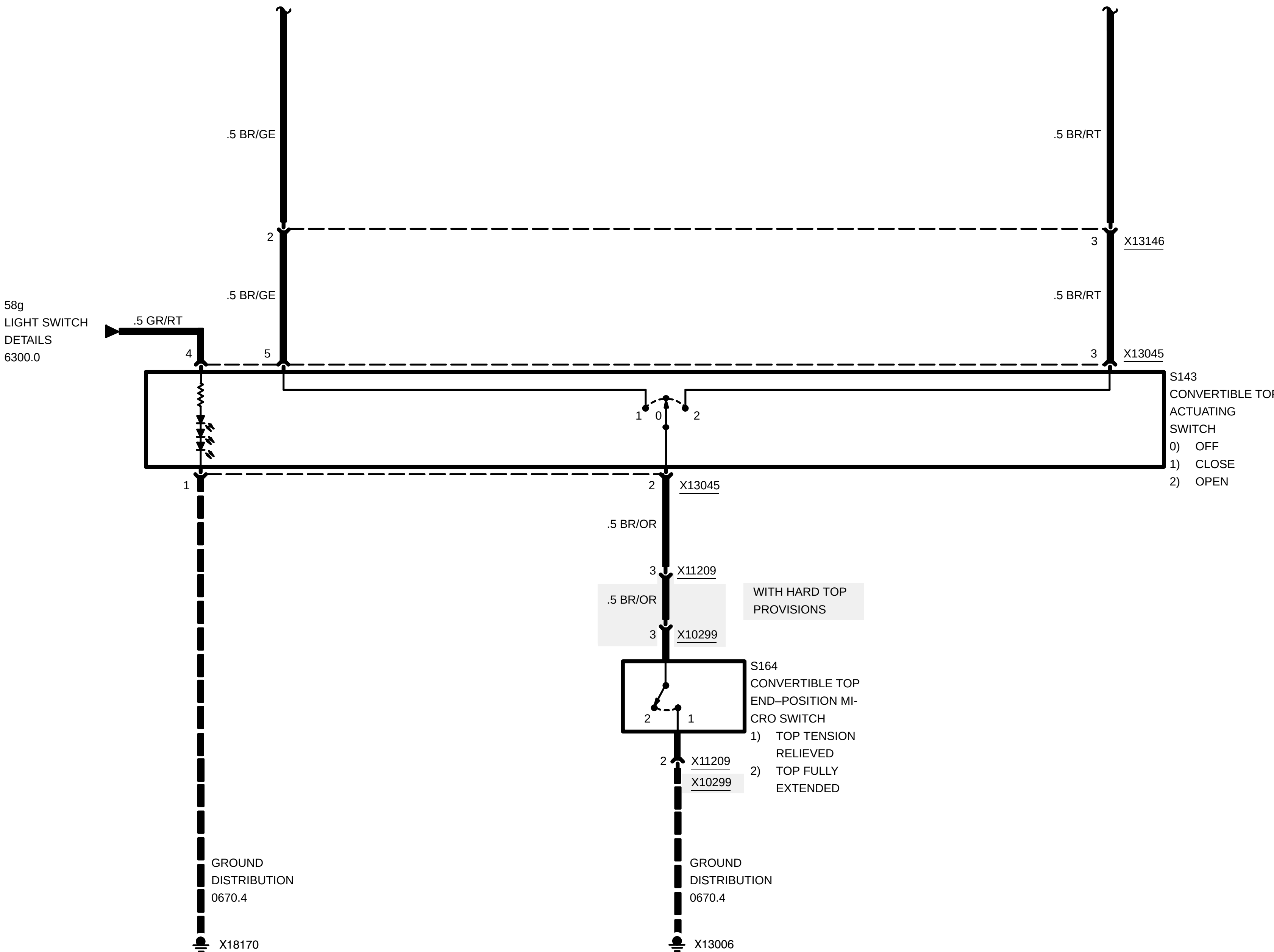
5410.5 POWER TILT SUNROOF



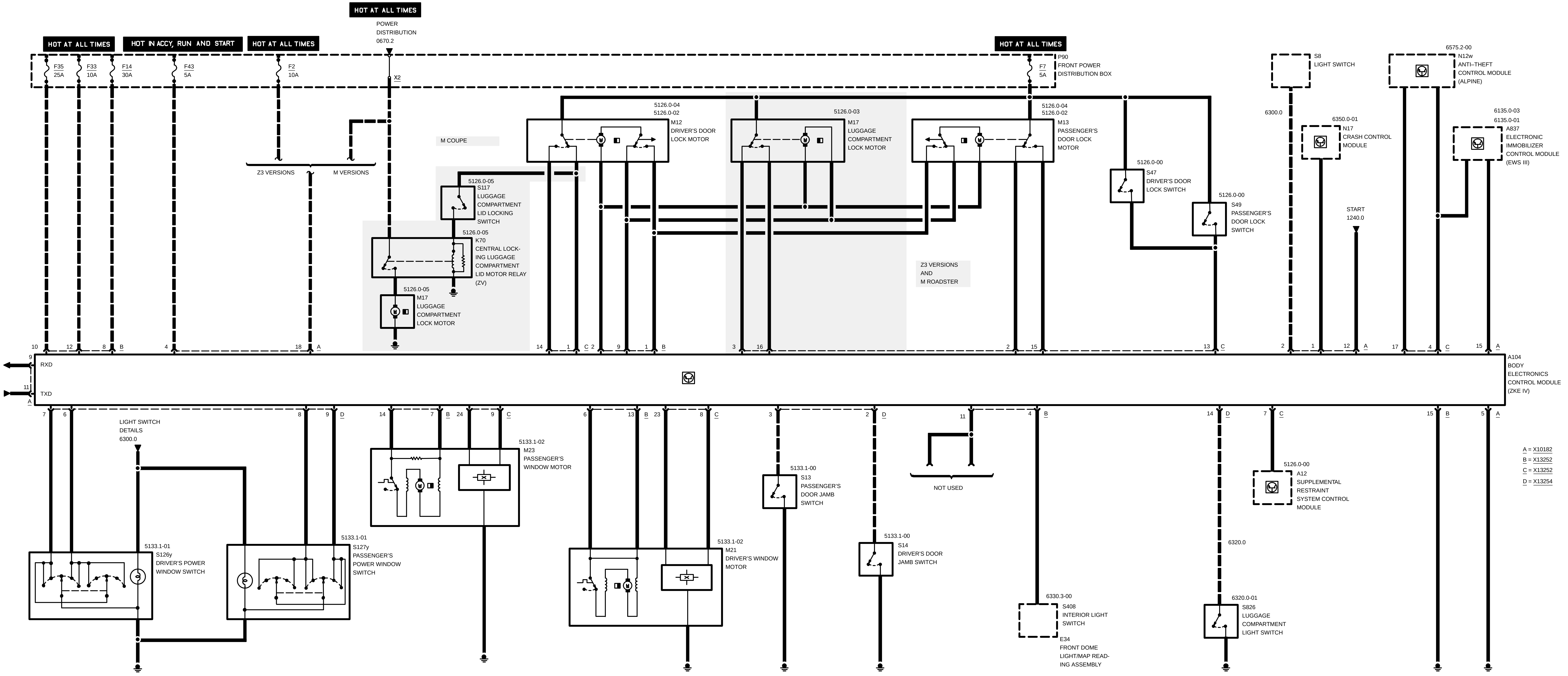
5430.2 ELECTRO–HYDRAULIC CONVERTIBLE TOP

BMW 3 Z3





.5 BR/GE
.5 BR/RT
2
3
X13146
.5 BR/GE
.5 BR/RT
58g
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
4
5
3
X13045
S143
CONVERTIBLE TOP
ACTUATING
SWITCH
0) OFF
1) CLOSE
2) OPEN
1
0
2
1
2
X13045
.5 BR/OR
3
X11209
WITH HARD TOP
PROVISIONS
.5 BR/OR
3
X10299
S164
CONVERTIBLE TOP
END–POSITION MI-
CRO SWITCH
1) TOP TENSION
RELIEVED
2) TOP FULLY
EXTENDED
2
1
2
X11209
X10299
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X18170
X13006


HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
HOT AT ALL TIMES
F35 25A
F33 10A
F14 30A
F43 5A
F2 10A
X2
F7 5A
P90 FRONT POWER DISTRIBUTION BOX
S8 LIGHT SWITCH
6575.2-00 N12w ANTI–THEFT CONTROL MODULE (ALPINE)
Z3 VERSIONS
M VERSIONS
M COUPE
5126.0-04 5126.0-02 M12 DRIVER'S DOOR LOCK MOTOR
5126.0-03 M17 LUGGAGE COMPARTMENT LOCK MOTOR
5126.0-04 5126.0-02 M13 PASSENGER'S DOOR LOCK MOTOR
6300.0
6350.0-01 N17 CRASH CONTROL MODULE
6135.0-03 6135.0-01 A837 ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)
5126.0-05 S117 LUGGAGE COMPARTMENT LID LOCKING SWITCH
5126.0-00 S47 DRIVER'S DOOR LOCK SWITCH
5126.0-00 S49 PASSENGER'S DOOR LOCK SWITCH
START 1240.0
5126.0-05 K70 CENTRAL LOCK-ING LUGGAGE COMPARTMENT LID MOTOR RELAY (ZV)
Z3 VERSIONS AND M ROADSTER
5126.0-05 M17 LUGGAGE COMPARTMENT LOCK MOTOR
RXD
TXD
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
LIGHT SWITCH DETAILS 6300.0
5133.1-02 M23 PASSENGER'S WINDOW MOTOR
NOT USED
5133.1-00 S13 PASSENGER'S DOOR JAMB SWITCH
5126.0-00 A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
A = X10182
B = X13252
C = X13252
D = X13254
5133.1-01 S126y DRIVER'S POWER WINDOW SWITCH
5133.1-01 S127y PASSENGER'S POWER WINDOW SWITCH
5133.1-02 M21 DRIVER'S WINDOW MOTOR
5133.1-00 S14 DRIVER'S DOOR JAMB SWITCH
6320.0
6330.3-00 S408 INTERIOR LIGHT SWITCH
E34 FRONT DOME LIGHT/MAP READ-ING ASSEMBLY
6320.0-01 S826 LUGGAGE COMPARTMENT LIGHT SWITCH

Pin Assignments

F = X10182	18 Pins, black
G = X13252	15 Pins, black
H = X13253	26 Pins, yellow
I = X13254	26 Pins, green

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control module
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box, fuse 43
5	M	Ground	Ground point
6		Not used	
7		Not used	
8		Not used	
9	A	Diagnosis RxD signal	Data link connector
10		Not used	
11	E/A	Diagnosis TxD signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Electronic immobilizer control module (EWS III)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	A	Central arrest signal	Lock motors
2	A	Unlock signal	Lock motors
3		Not used	
4	A	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	A	Lock signal	Lock motors
10	E	Power supply	Front power distribution box, fuse 35
11	A	Consumer cut-off signal	Not used
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground point

X13253

Pin	Type	Description/Function	Connection
1	E	Unlock signal	Door lock motor driver's door
2	E	Unlock signal	Door lock motor passenger's door
3	E	Unlock signal	Luggage compartment lock motor (Z3 Versions and M Roadster)
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Supplemental restraint system control module
8	E	Revolution signal	Power window motor driver's door
9	E	Revolution signal	Power window motor passenger's door

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
10		Not used	
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal luggage compartment lid	Luggage compartment lock motor (Z3 Versions and M Roadster)
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25		Not used	
26		Not used	

X13254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4		Not used	
5		Not used	
6	E	OPEN signal	Power window switch driver's door
7	E	CLOSE signal	Power window switch driver's door
8	E	OPEN signal	Power window switch passenger's door
9	E	CLOSE signal	Power window switch passenger's door
10		Not used	

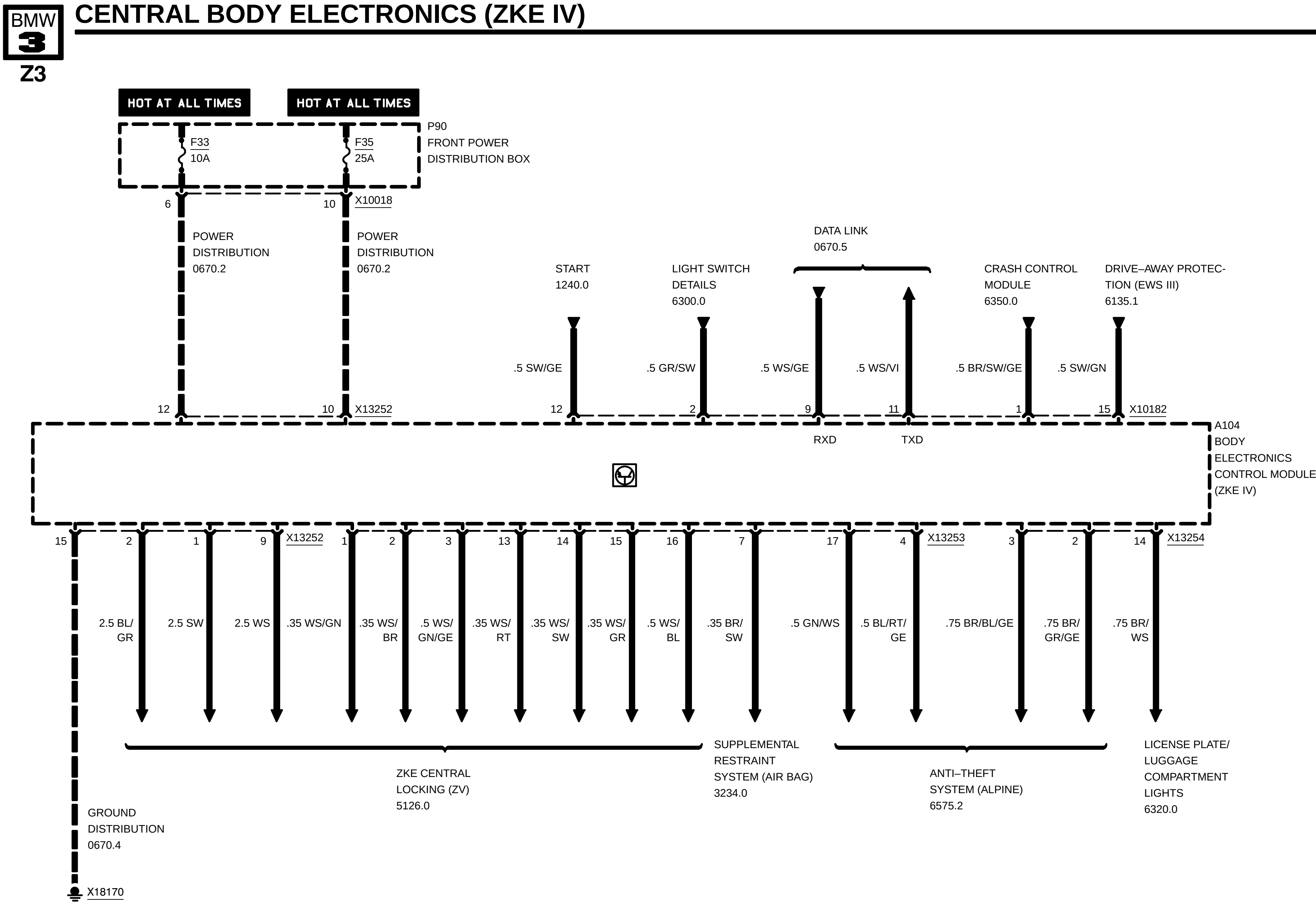
E = Input, A = Output, M = Ground

Pin Assignments

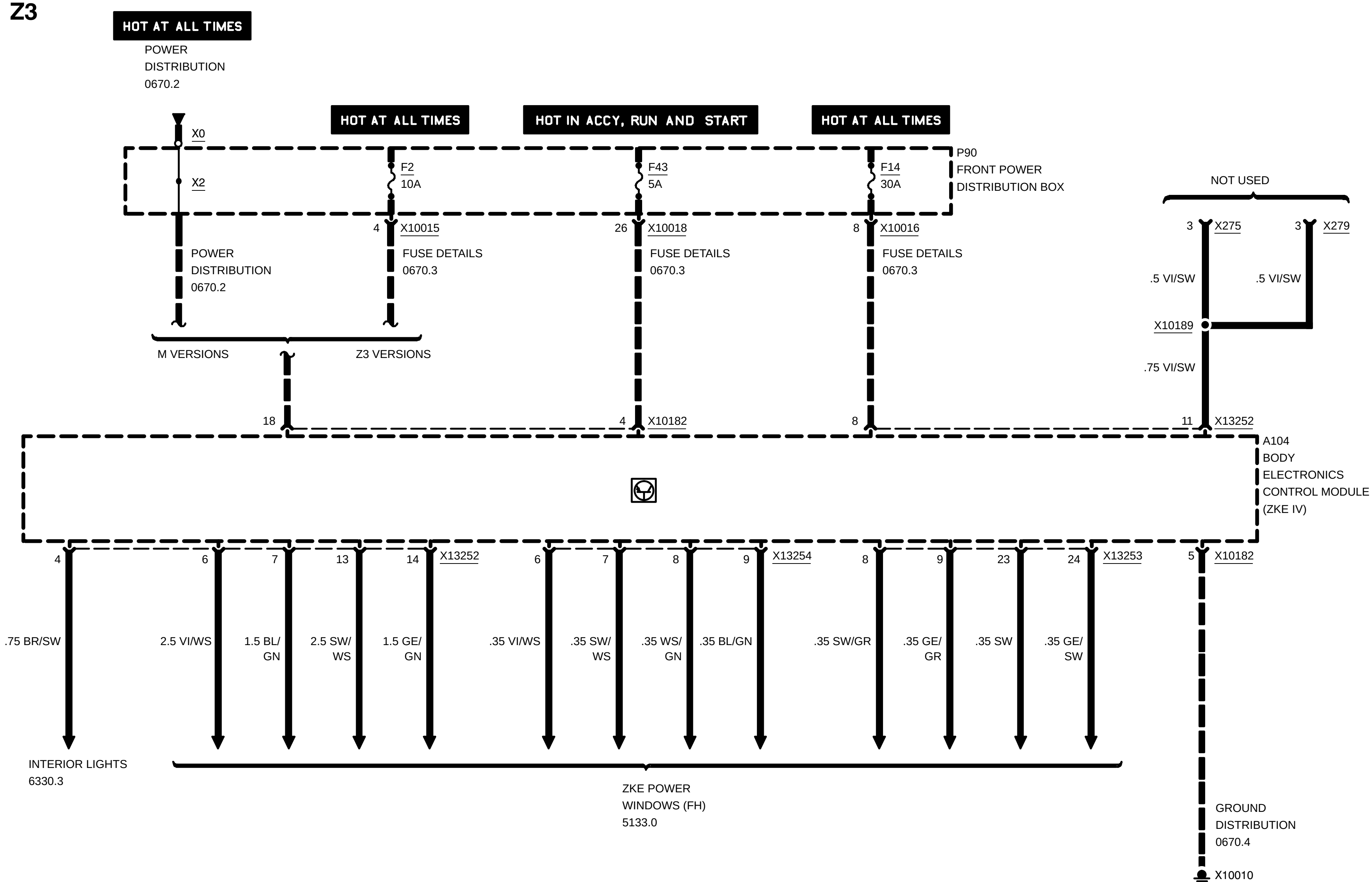
Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13		Not used	
14	E	Luggage compartment signal	Luggage compartment light switch
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

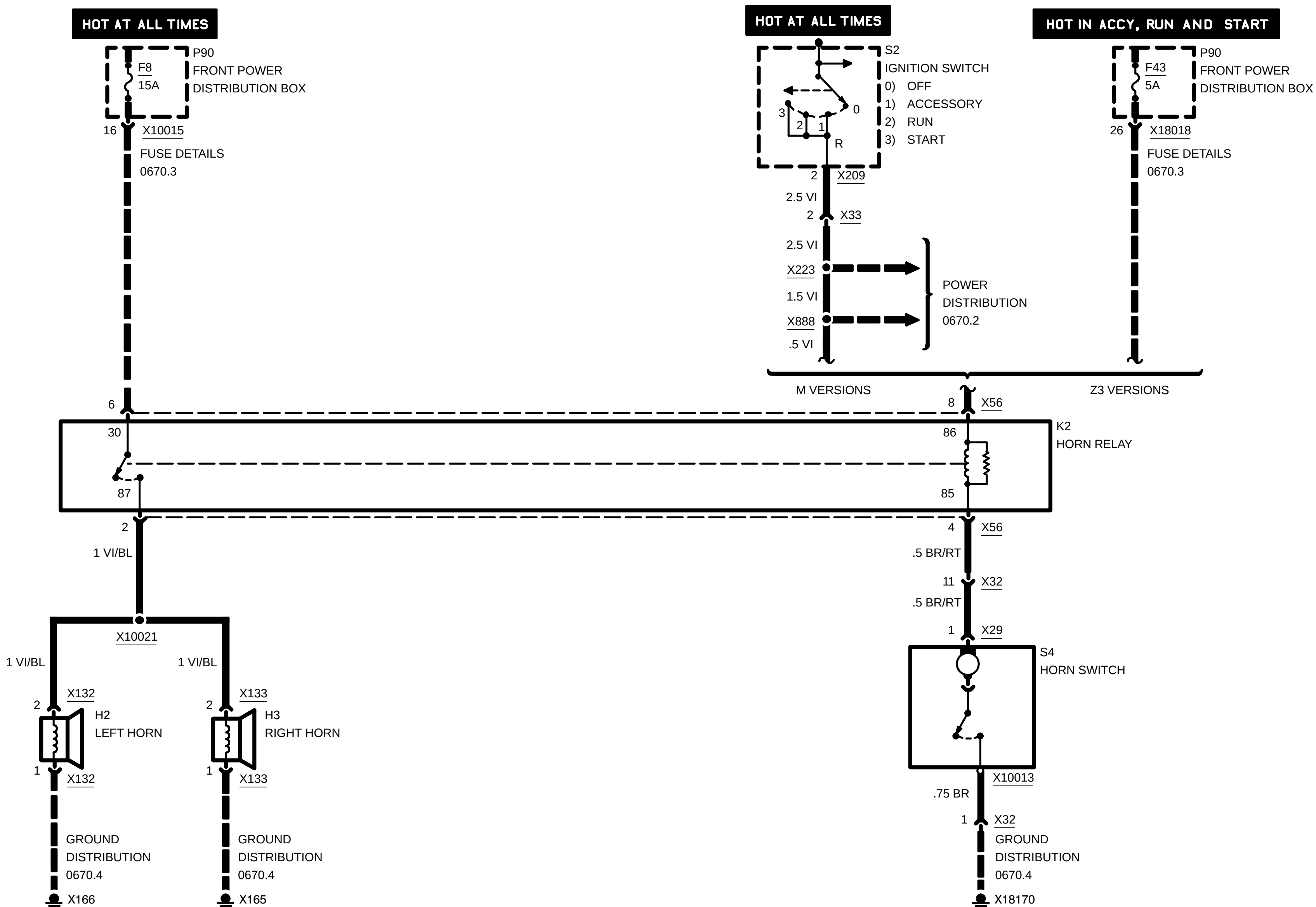
CENTRAL BODY ELECTRONICS (ZKE IV)



CENTRAL BODY ELECTRONICS (ZKE IV)

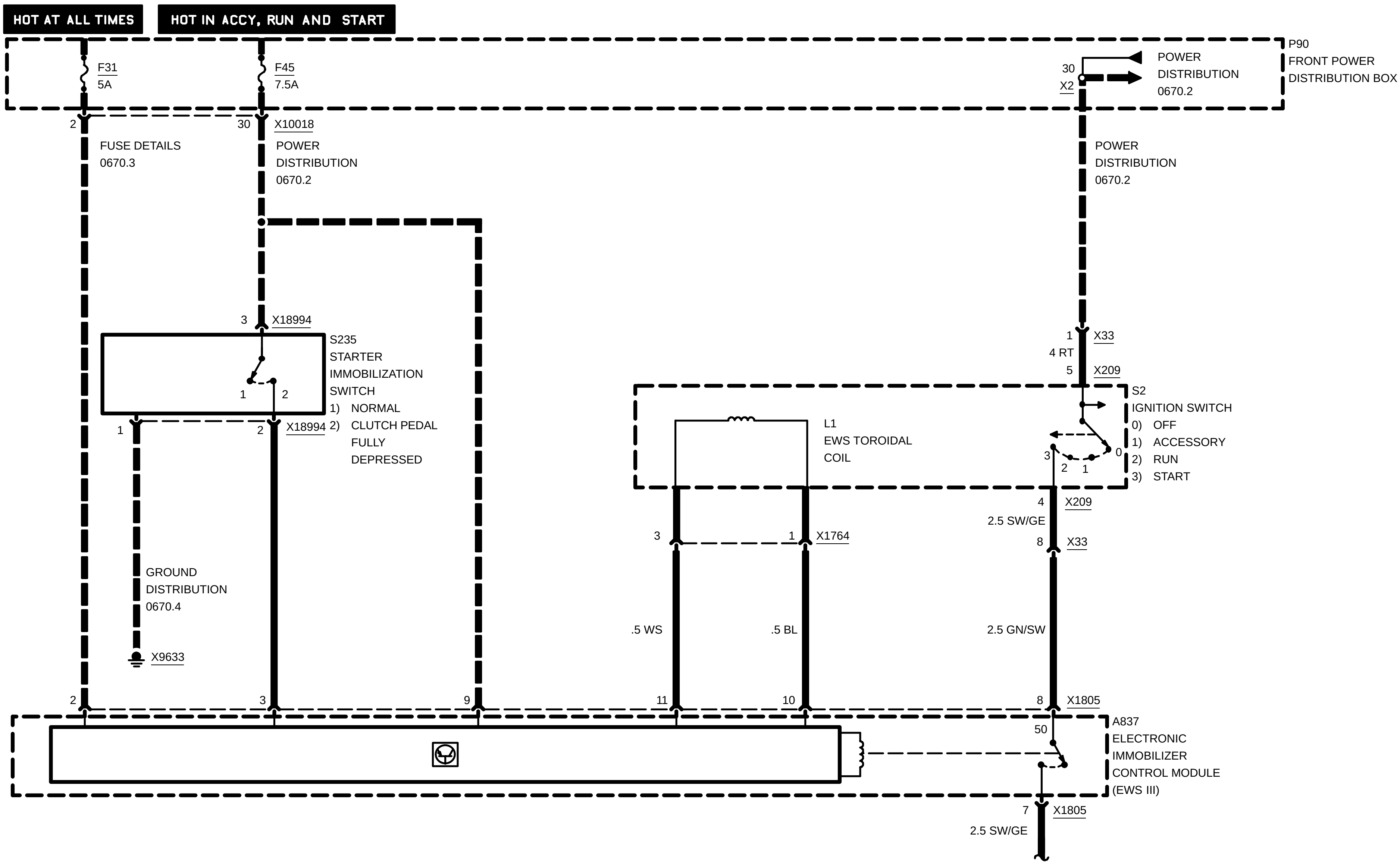


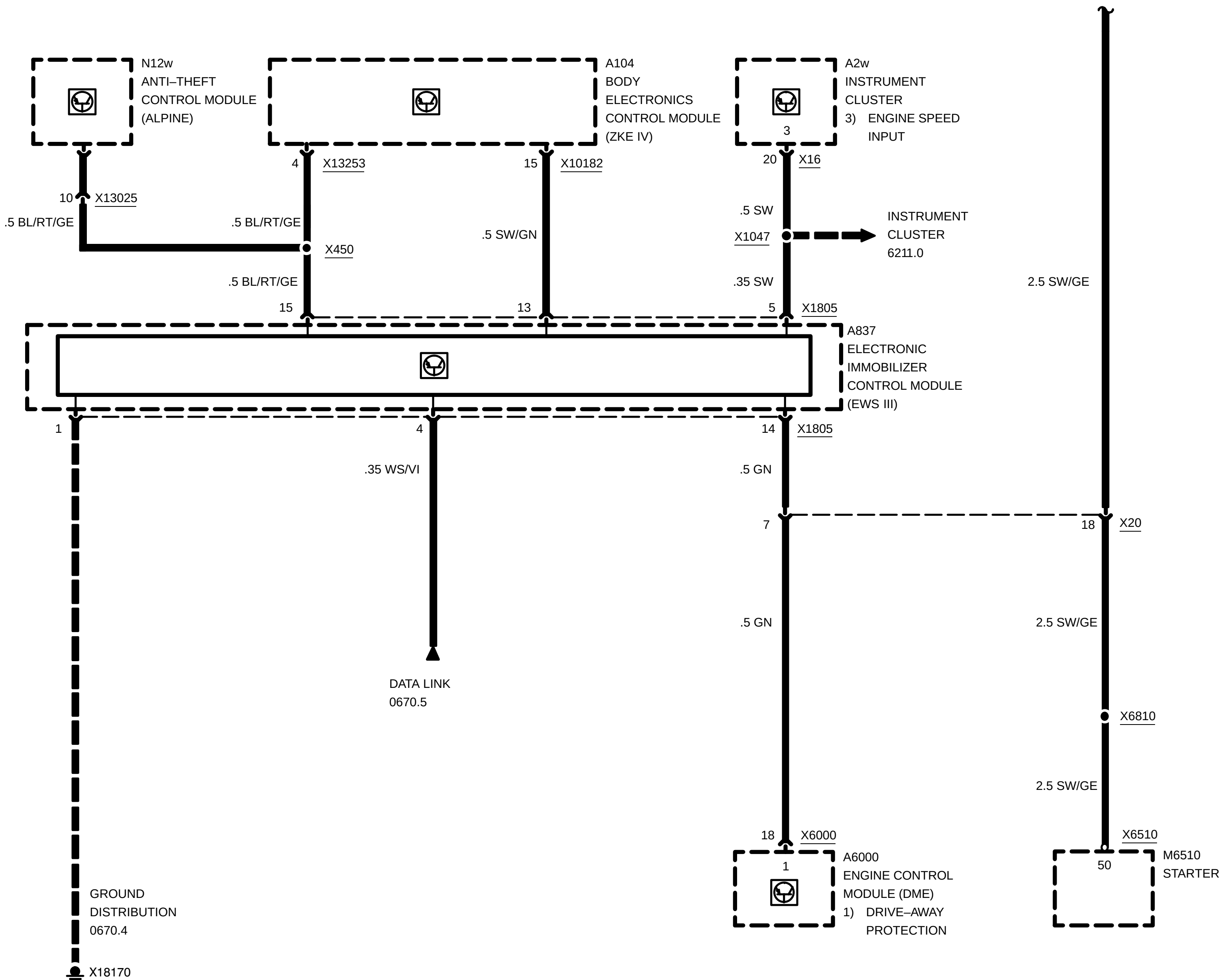
6133.0 HORN

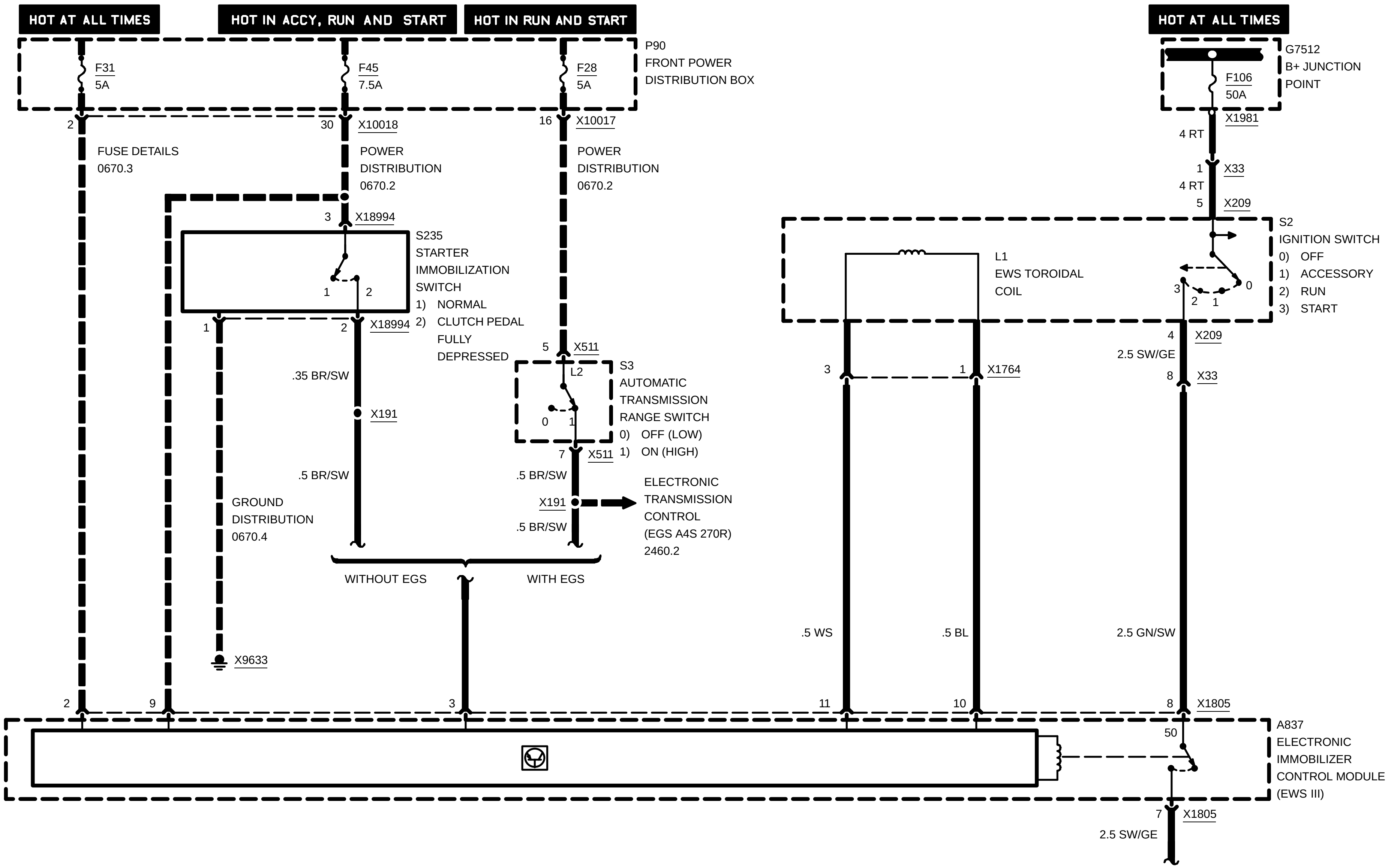

HOT AT ALL TIMES
F8
15A
P90
FRONT POWER
DISTRIBUTION BOX
16 X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2 X209
2.5 VI
2 X33
2.5 VI
X223
1.5 VI
X888
.5 VI
POWER
DISTRIBUTION
0670.2
HOT IN ACCY, RUN AND START
F43
5A
P90
FRONT POWER
DISTRIBUTION BOX
26 X18018
FUSE DETAILS
0670.3
M VERSIONS
Z3 VERSIONS
6
8 X56
30
86
K2
HORN RELAY
87
85
2
4 X56
1 VI/BL
.5 BR/RT
11 X32
.5 BR/RT
1 X29
X10021
S4
HORN SWITCH
1 VI/BL
1 VI/BL
X132
X133
H2
LEFT HORN
H3
RIGHT HORN
1 X132
1 X133
X10013
.75 BR
1 X32
GROUND
DISTRIBUTION
0670.4
X166
X165
X18170

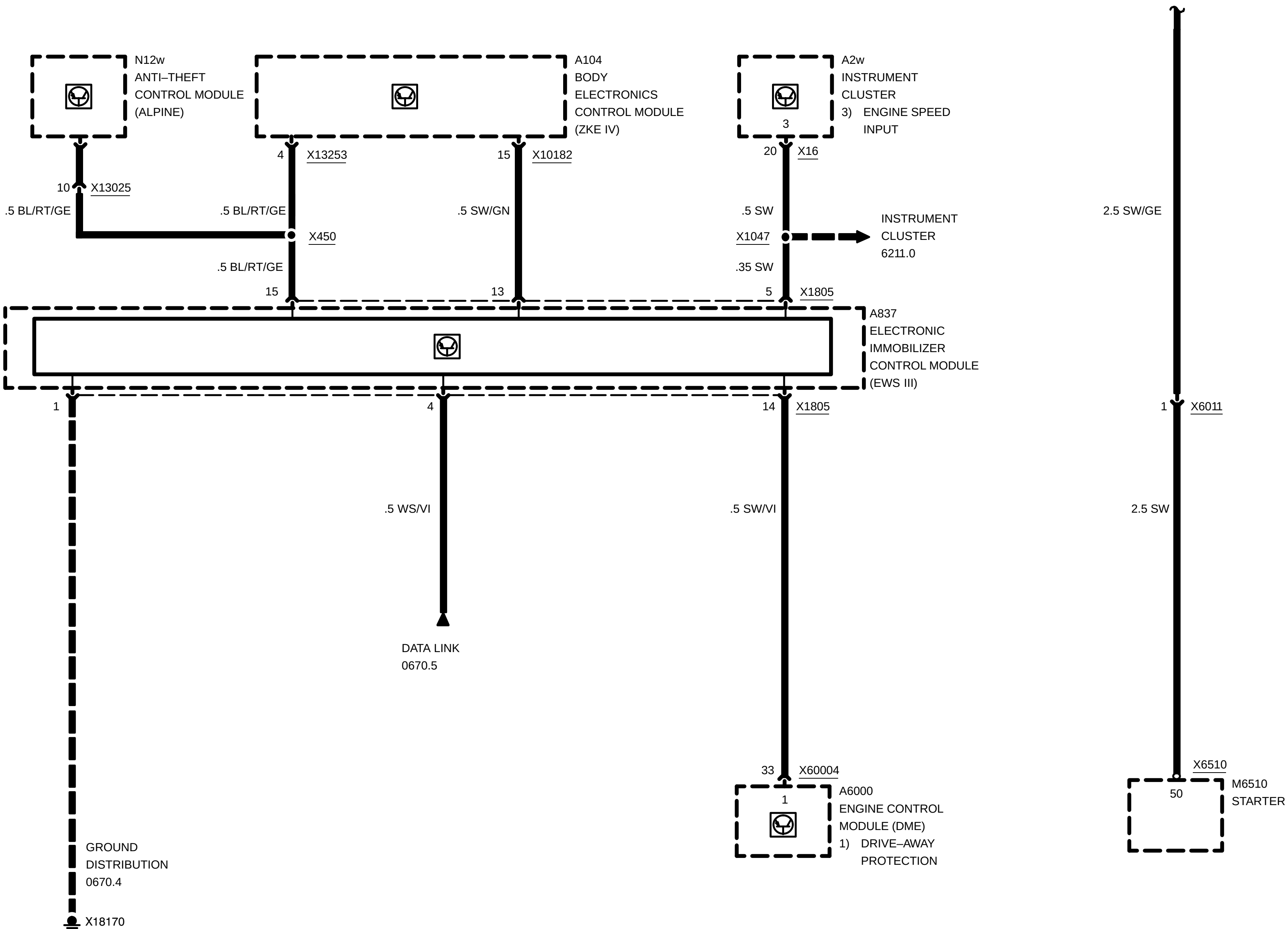
6135.1 DRIVE–AWAY PROTECTION (EWS III)

M VERSIONS




N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
A2w
INSTRUMENT
CLUSTER
3) ENGINE SPEED
INPUT
10
X13025
.5 BL/RT/GE
4
X13253
15
X10182
3
20
X16
.5 SW
X1047
INSTRUMENT
CLUSTER
6211.0
.5 BL/RT/GE
X450
.5 SW/GN
.5 BL/RT/GE
.35 SW
2.5 SW/GE
15
13
5
X1805
A837
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS III)
1
4
14
X1805
.35 WS/VI
.5 GN
7
18
X20
.5 GN
2.5 SW/GE
DATA LINK
0670.5
X6810
2.5 SW/GE
18
X6000
X6510
A6000
ENGINE CONTROL
MODULE (DME)
1) DRIVE–AWAY
PROTECTION
1
50
M6510
STARTER
GROUND
DISTRIBUTION
0670.4
X18170

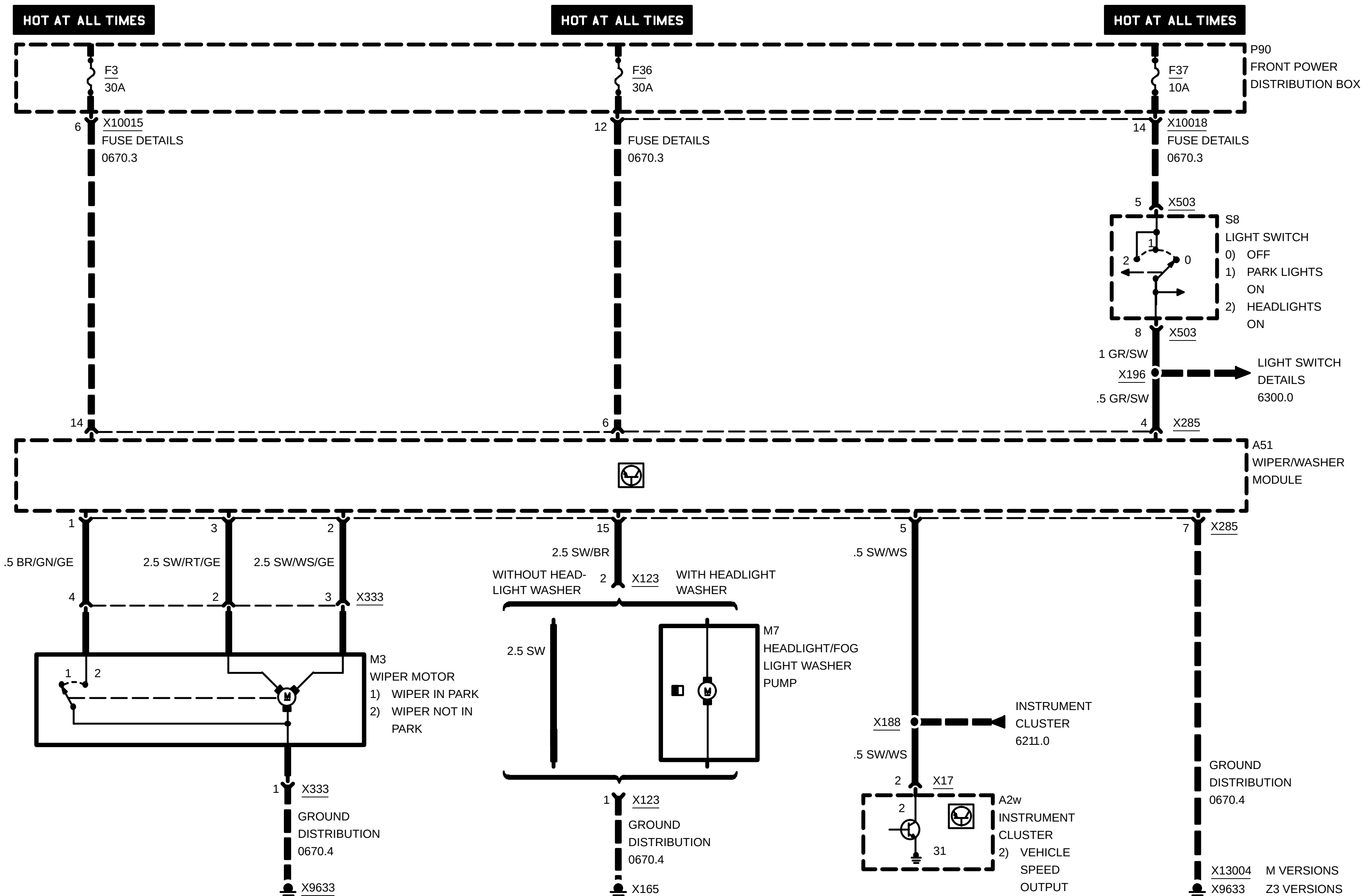

HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
F31 5A
F45 7.5A
F28 5A
P90 FRONT POWER DISTRIBUTION BOX
G7512 B+ JUNCTION POINT
F106 50A
X1981
4 RT
X33
4 RT
X209
X10018
X10017
FUSE DETAILS 0670.3
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION 0670.2
X18994
S235 STARTER IMMOBILIZATION SWITCH
1) NORMAL
2) CLUTCH PEDAL FULLY DEPRESSED
X18994
.35 BR/SW
X191
.5 BR/SW
GROUND DISTRIBUTION 0670.4
X9633
X511
L2
S3 AUTOMATIC TRANSMISSION RANGE SWITCH
0) OFF (LOW)
1) ON (HIGH)
X511
.5 BR/SW
X191
.5 BR/SW
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 2460.2
WITHOUT EGS
WITH EGS
S2 IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
L1 EWS TOROIDAL COIL
X1764
X209
2.5 SW/GE
X33
.5 WS
.5 BL
2.5 GN/SW
X1805
A837 ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)
X1805
2.5 SW/GE


N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
A2w
INSTRUMENT
CLUSTER
3) ENGINE SPEED
INPUT
3
4
X13253
15
X10182
20
X16
10
X13025
.5 BL/RT/GE
.5 BL/RT/GE
.5 SW/GN
.5 SW
X450
X1047
INSTRUMENT
CLUSTER
6211.0
.5 BL/RT/GE
.35 SW
15
13
5
X1805
A837
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS III)
1
4
14
X1805
.5 WS/VI
.5 SW/VI
DATA LINK
0670.5
2.5 SW/GE
1
X6011
2.5 SW
33
X60004
A6000
ENGINE CONTROL
MODULE (DME)
1) DRIVE–AWAY
PROTECTION
1
X6510
50
M6510
STARTER
GROUND
DISTRIBUTION
0670.4
X18170

BMW 3 Z3

6160.1 WIPER/WASHER MODULE (WWM)

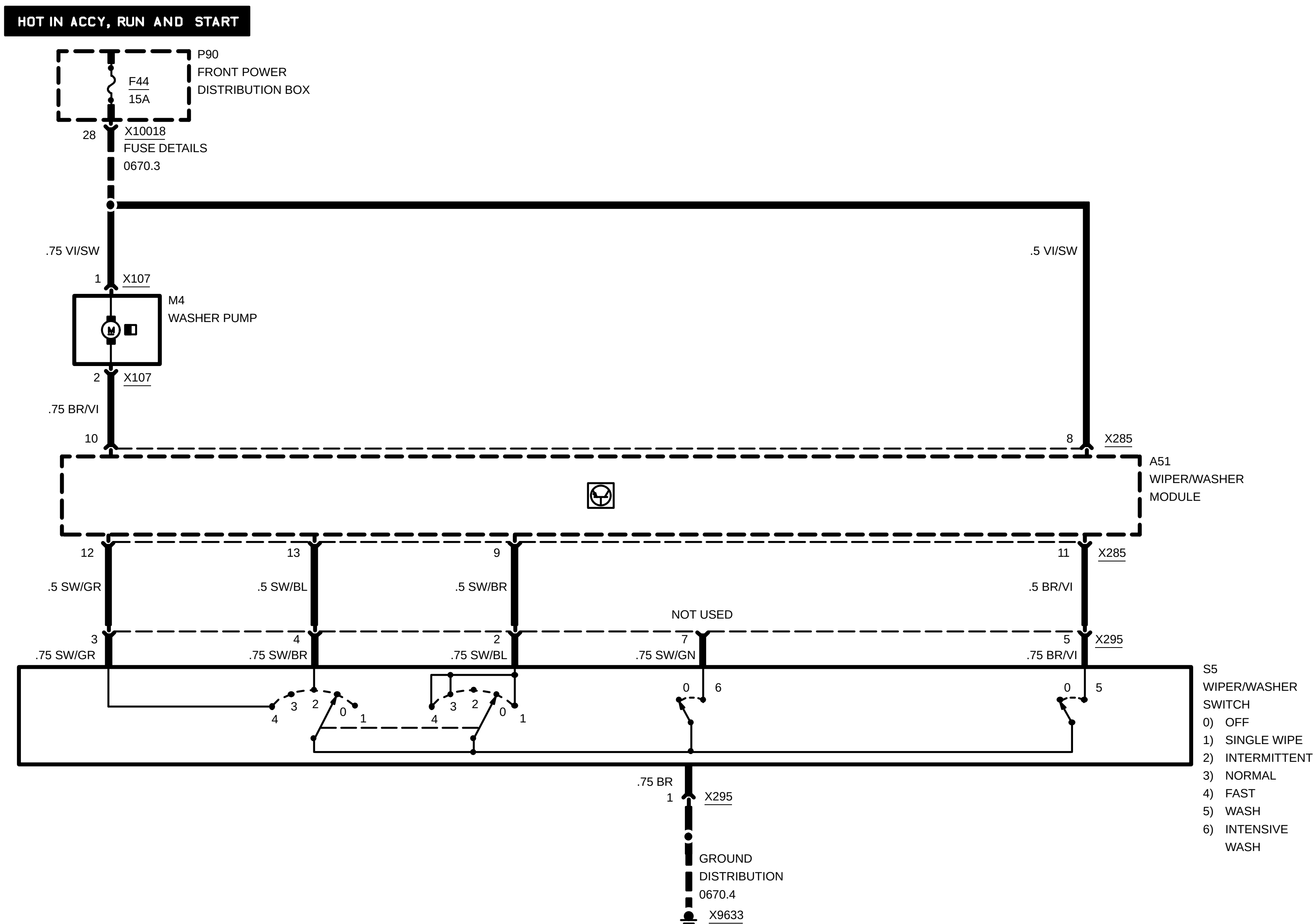
HIGH



WIPER/WASHER MODULE (WWM)

ROADSTER

HIGH



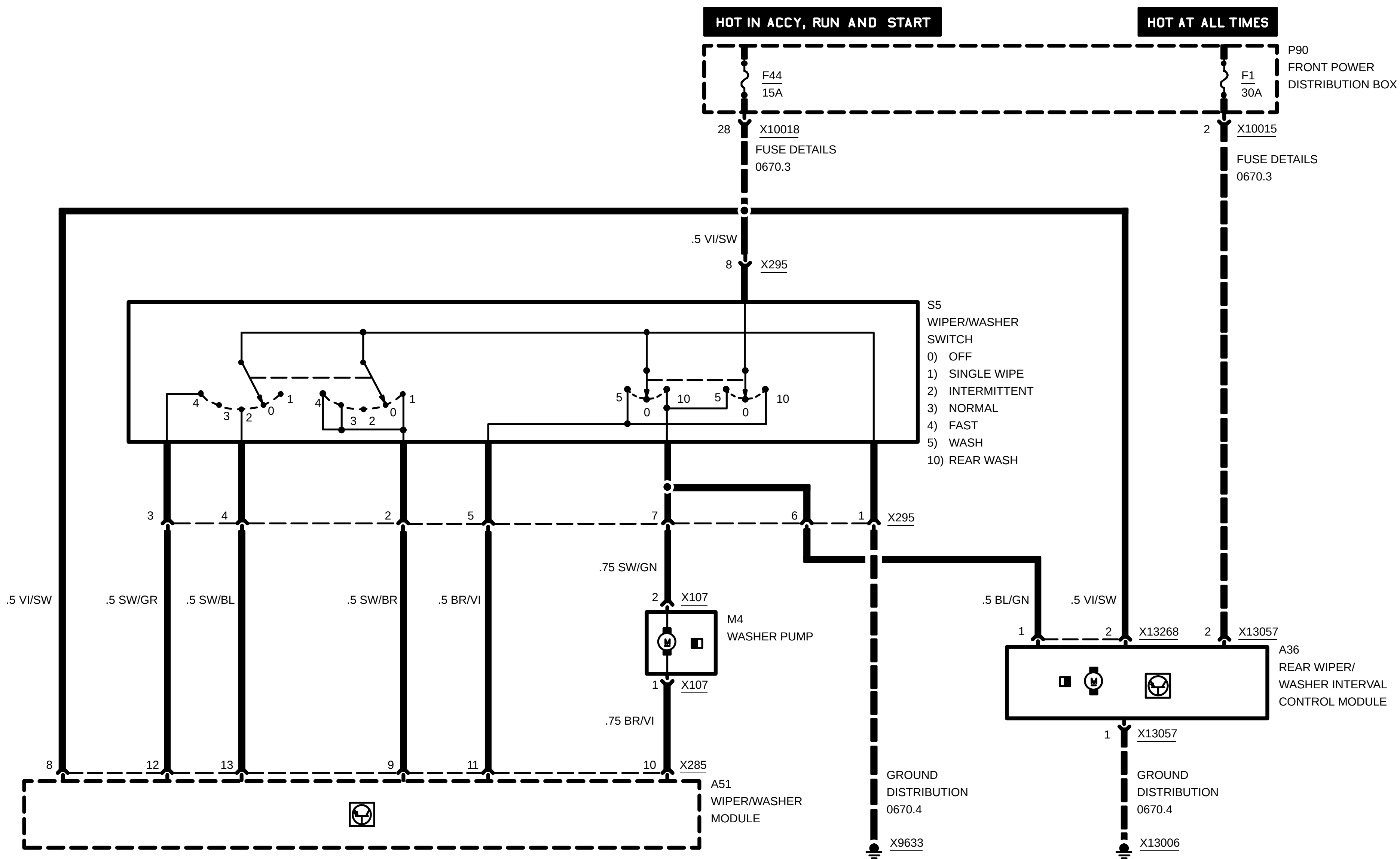
BMW 3

Z3

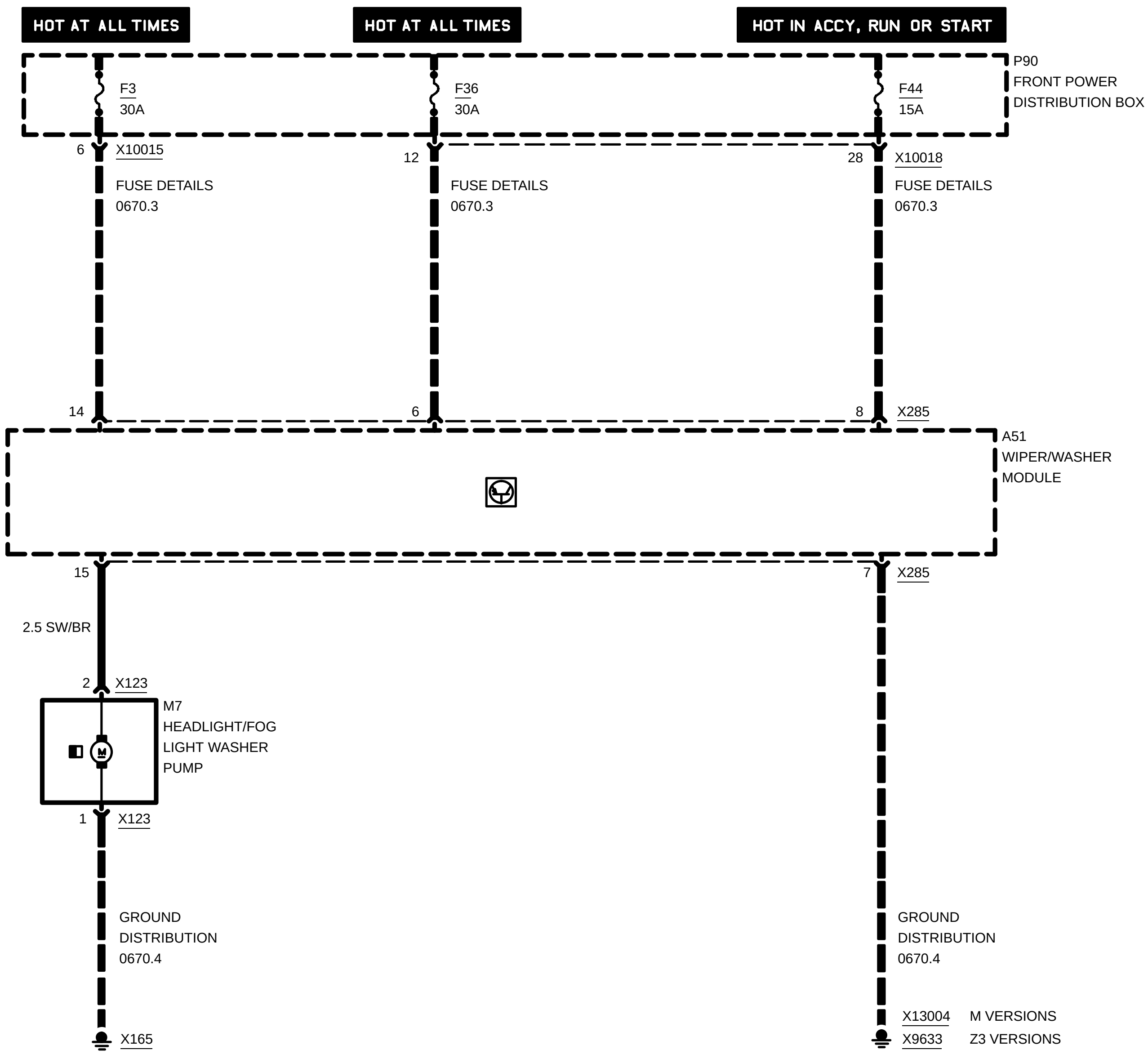
WIPER/WASHER MODULE (WWM)

WIPER/WASHER (HIGH)

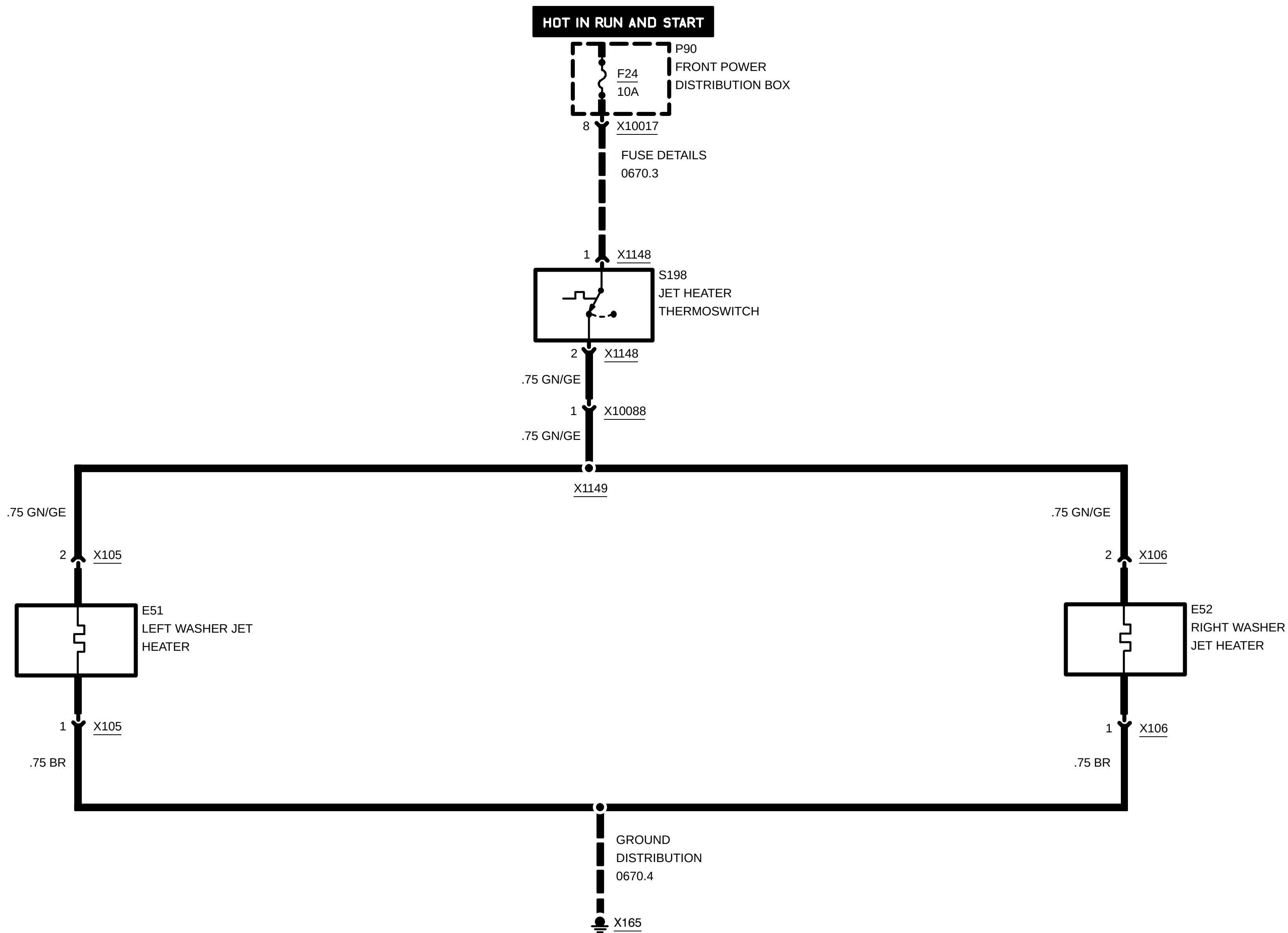
COUPE

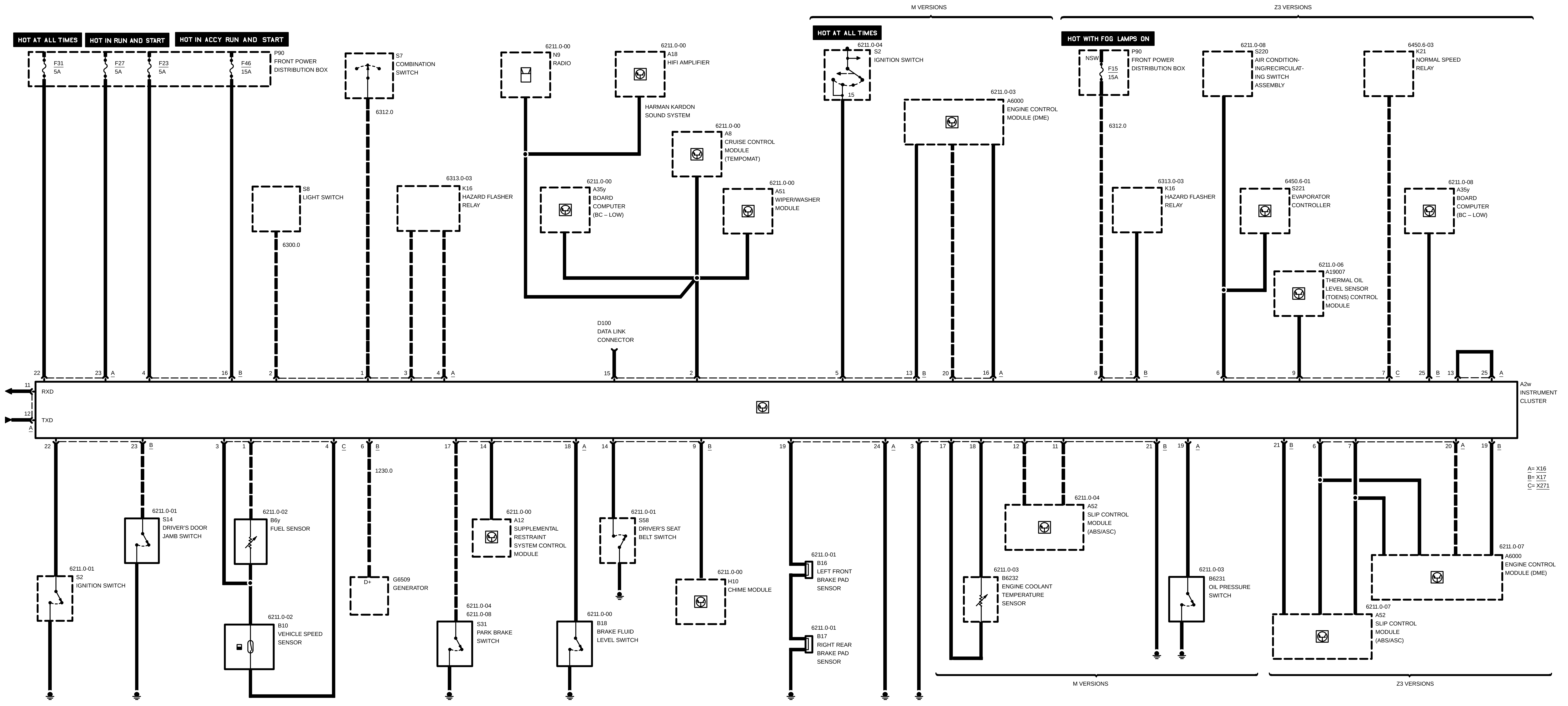


6167.1 HEADLIGHT WASHER (SRA)



6169.0 WINDSHIELD WASHER JET HEATERS





M VERSIONS
Z3 VERSIONS
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY RUN AND START
F31 5A
F27 5A
F23 5A
F46 15A
P90 FRONT POWER DISTRIBUTION BOX
S7 COMBINATION SWITCH
6312.0
6211.0-00 N9 RADIO
6211.0-00 A18 HIFI AMPLIFIER
HARMAN KARDON SOUND SYSTEM
6211.0-00 A8 CRUISE CONTROL MODULE (TEMPOMAT)
S8 LIGHT SWITCH
6300.0
6313.0-03 K16 HAZARD FLASHER RELAY
6211.0-00 A35y BOARD COMPUTER (BC – LOW)
6211.0-00 A51 WIPER/WASHER MODULE
D100 DATA LINK CONNECTOR
HOT AT ALL TIMES
6211.0-04 S2 IGNITION SWITCH
15
6211.0-03 A6000 ENGINE CONTROL MODULE (DME)
HOT WITH FOG LAMPS ON
NSW
F15 15A
P90 FRONT POWER DISTRIBUTION BOX
6312.0
6211.0-08 S220 AIR CONDITION-ING/RECIRCULAT-ING SWITCH ASSEMBLY
6450.6-03 K21 NORMAL SPEED RELAY
6313.0-03 K16 HAZARD FLASHER RELAY
6450.6-01 S221 EVAPORATOR CONTROLLER
6211.0-08 A35y BOARD COMPUTER (BC – LOW)
6211.0-06 A19007 THERMAL OIL LEVEL SENSOR (TOENS) CONTROL MODULE
RXD
TXD
A2w INSTRUMENT CLUSTER
6211.0-01 S2 IGNITION SWITCH
6211.0-01 S14 DRIVER'S DOOR JAMB SWITCH
6211.0-02 B6y FUEL SENSOR
6211.0-02 B10 VEHICLE SPEED SENSOR
1230.0
D+
G6509 GENERATOR
6211.0-00 A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
6211.0-04 6211.0-08 S31 PARK BRAKE SWITCH
6211.0-00 B18 BRAKE FLUID LEVEL SWITCH
6211.0-01 S58 DRIVER'S SEAT BELT SWITCH
6211.0-00 H10 CHIME MODULE
6211.0-01 B16 LEFT FRONT BRAKE PAD SENSOR
6211.0-01 B17 RIGHT REAR BRAKE PAD SENSOR
6211.0-04 A52 SLIP CONTROL MODULE (ABS/ASC)
6211.0-03 B6232 ENGINE COOLANT TEMPERATURE SENSOR
6211.0-03 B6231 OIL PRESSURE SWITCH
6211.0-07 A6000 ENGINE CONTROL MODULE (DME)
6211.0-07 A52 SLIP CONTROL MODULE (ABS/ASC)
M VERSIONS
Z3 VERSIONS
A= X16
B= X17
C= X271

Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Light switch (dimmer)
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5		Not used	
6	E/A	CAN bus high	Engine/slip control module (Z3 Versions)
7	E/A	CAN bus low	Engine/slip control module (Z3 Versions)
8		Not used	
9		Not used	
10		Not used	
11	A	Diagnosis RXD signal	Data link connector (M Versions)
12	E/A	Diagnosis TXD signal	Data link connector
13	E/A	CAN jumper	Instrument cluster (Z3 Versions)
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	“Check engine” indicator control	Engine control module (DME) (M Versions)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21		Not used	
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25	E/A	CAN jumper	Instrument cluster (Z3 Versions)
26		Not used	

E = Input, A = Output, M = Ground

Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay (Z3 Versions)
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15 (M Versions)
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15 (Z3 Versions)
9	A	Sound tone signal	Chime module
10		not used	
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) (M Versions)
12	E	ASC signal	ASC control module (M Versions)
13	A	TI-measurement signal (fuel consumption)	Engine control module (DME) (M Versions)
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor (–)	Coolant temperature sensor (M Versions)
18	E	Coolant temperature sensor (+)	Coolant temperature sensor (M Versions)
19	E	Oil pressure warning lamp control	Oil pressure switch (M Versions) Engine control module (Z3 Versions)
20		Not used	
21	M	Ground (ASC)	Ground point (M Versions)
21	E	ABS warning lamp (ABS)	Slip control module (ABS/ASC) (Z3 Versions)
22	E	Ignition key warning/audible ignition key warning	Ignition switch

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
23	E	Driver’s door open	Driver’s door jamb switch
24		Not used	
25	E	Fuel consumption signal	Board computer (Z3 Versions)
26		Not used	

X271

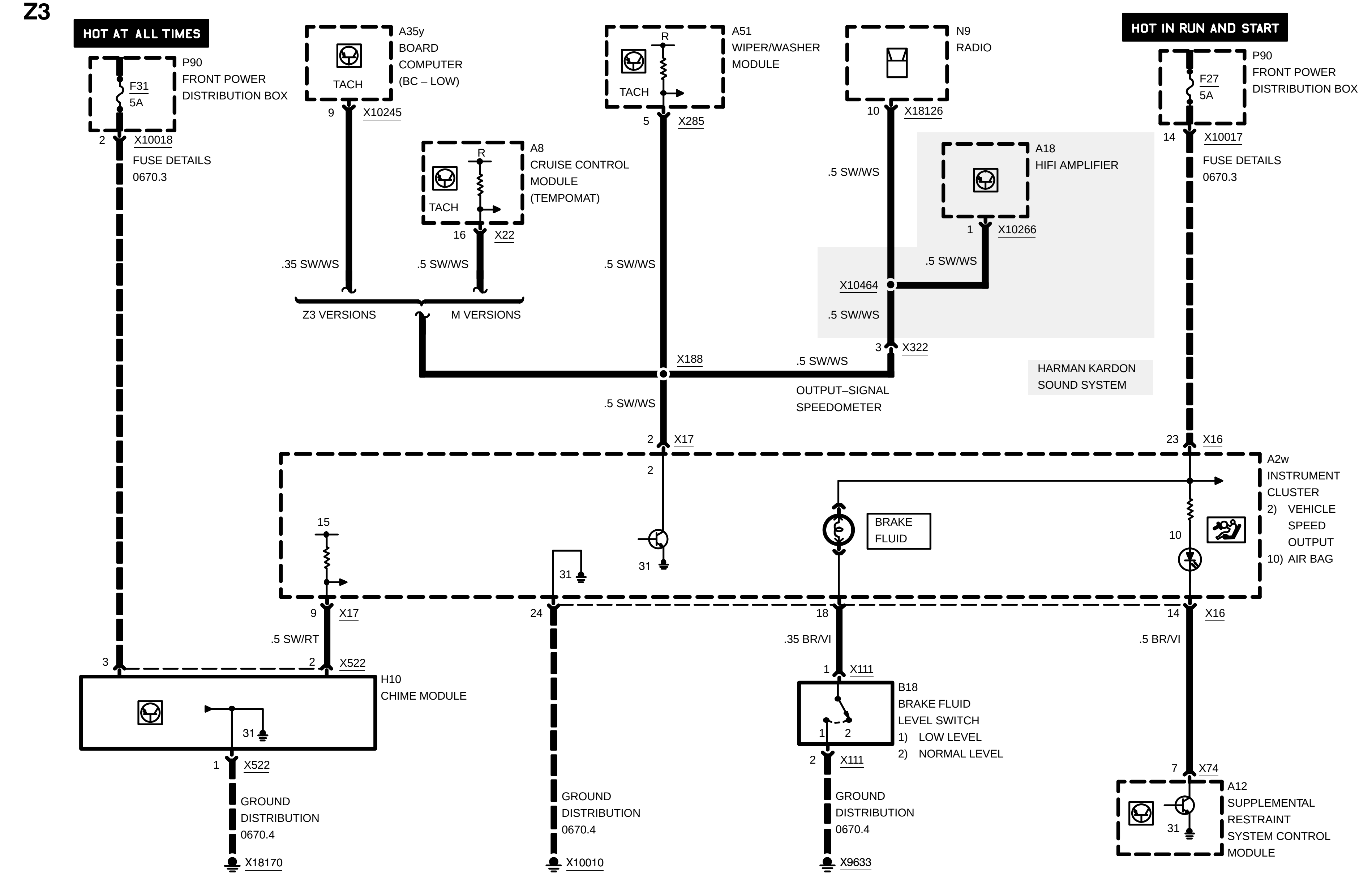
Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensor and vehicle speed sensor	Fuel tank sensor and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6	E	A/C-ON-signal	Air condition switch (Z3 Versions)
7	E	Activate A/C	Pressure switch, normal speed relay (Z3 Versions)
8		Not used	
9	E	Oil level signal	Thermal oil level sensor (TOENS) control module (Z3 Versions)
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

INSTRUMENT CLUSTER

INDICATORS

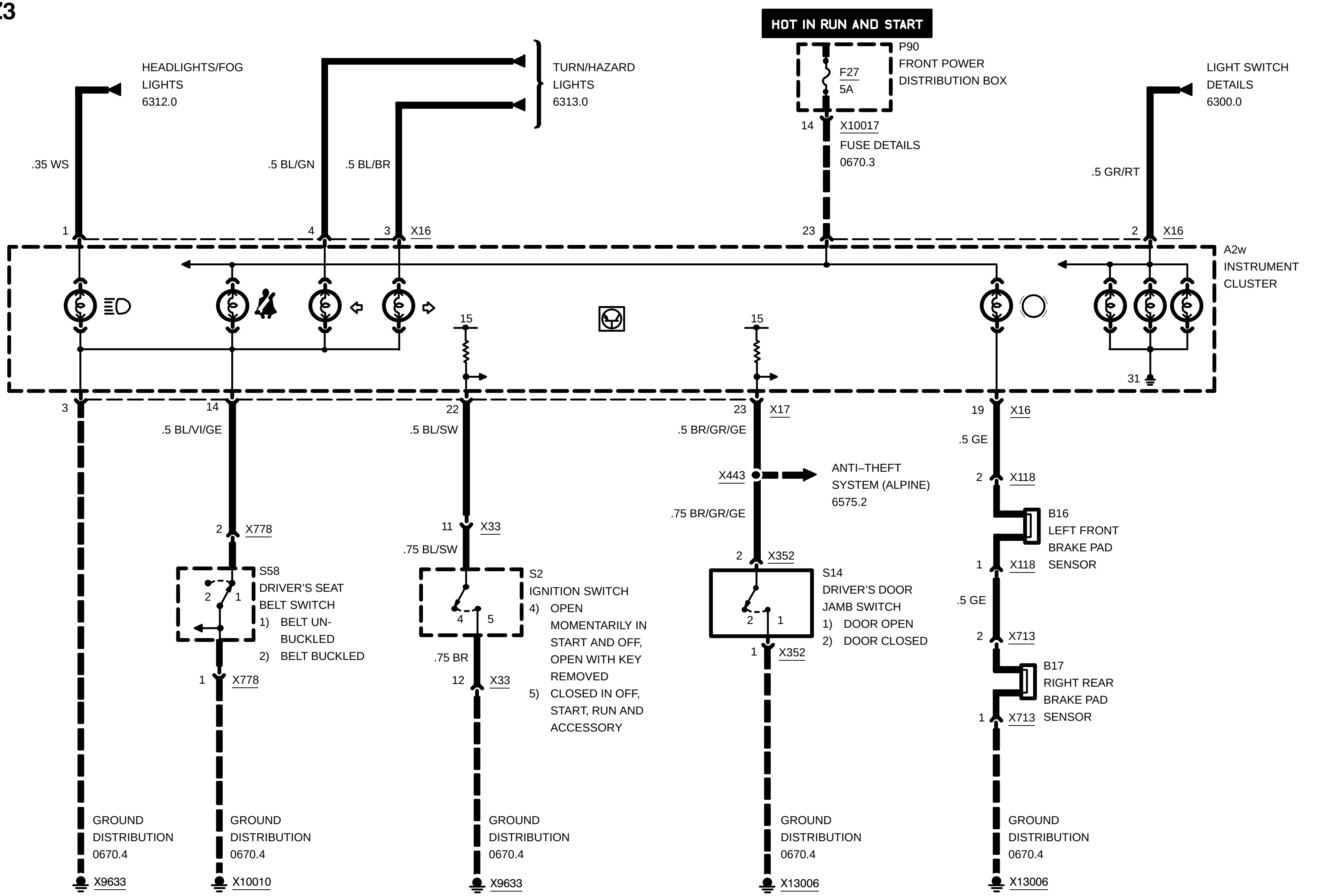
Z3



BMW 3 Z3

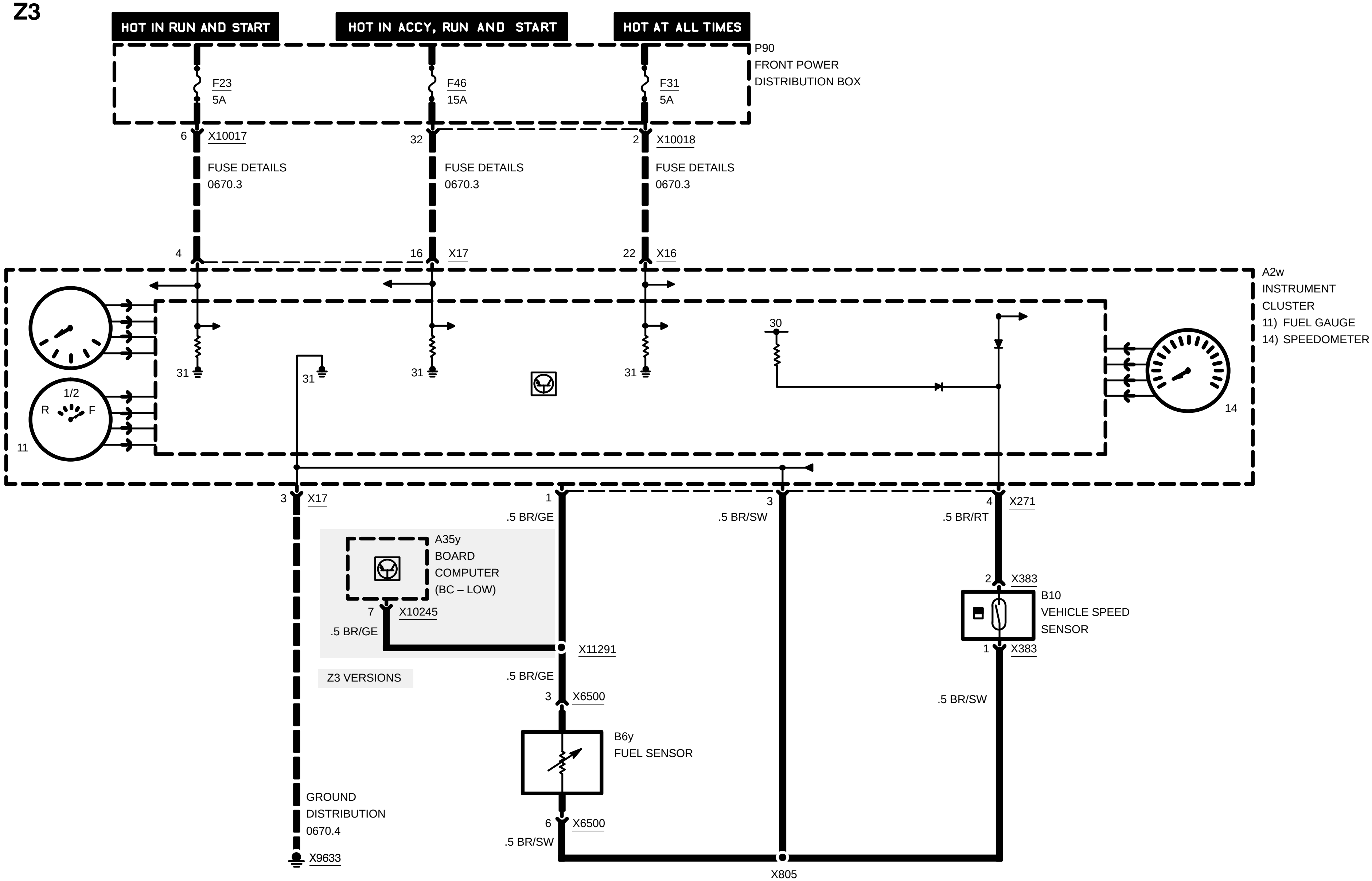
INSTRUMENT CLUSTER

INDICATORS



INSTRUMENT CLUSTER

INDICATORS

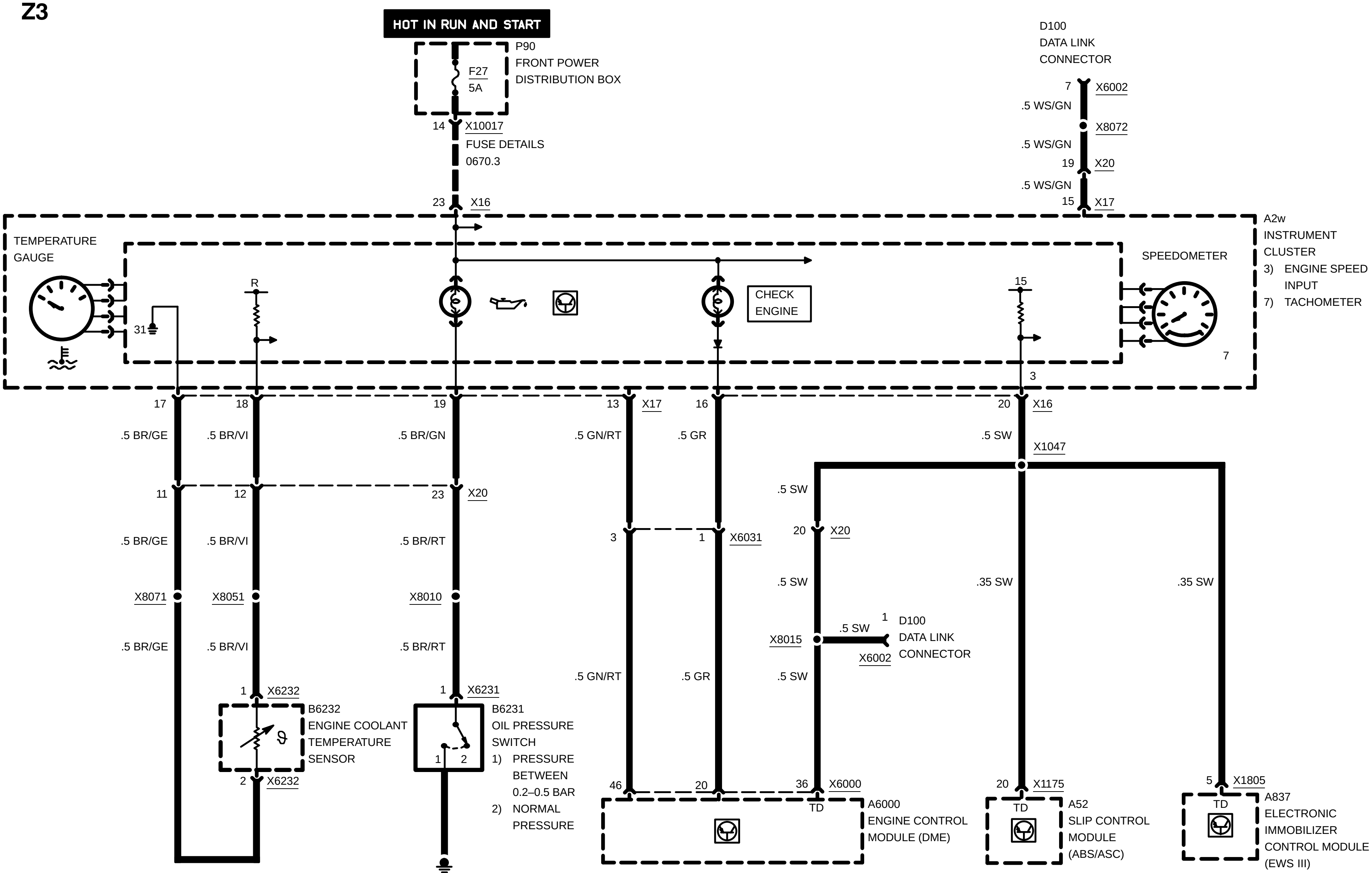


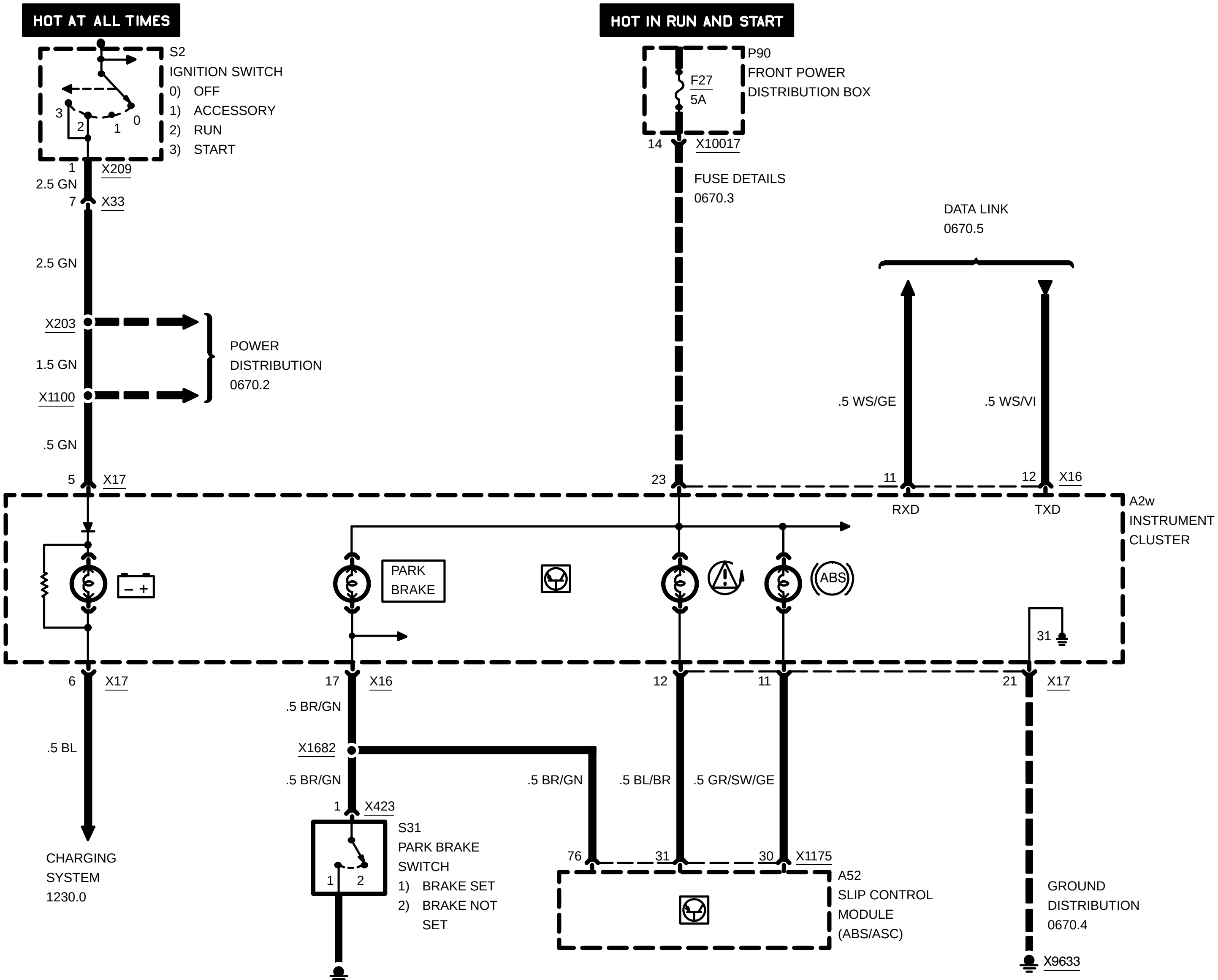
INSTRUMENT CLUSTER

M VERSIONS

INDICATORS

BMW 3 Z3

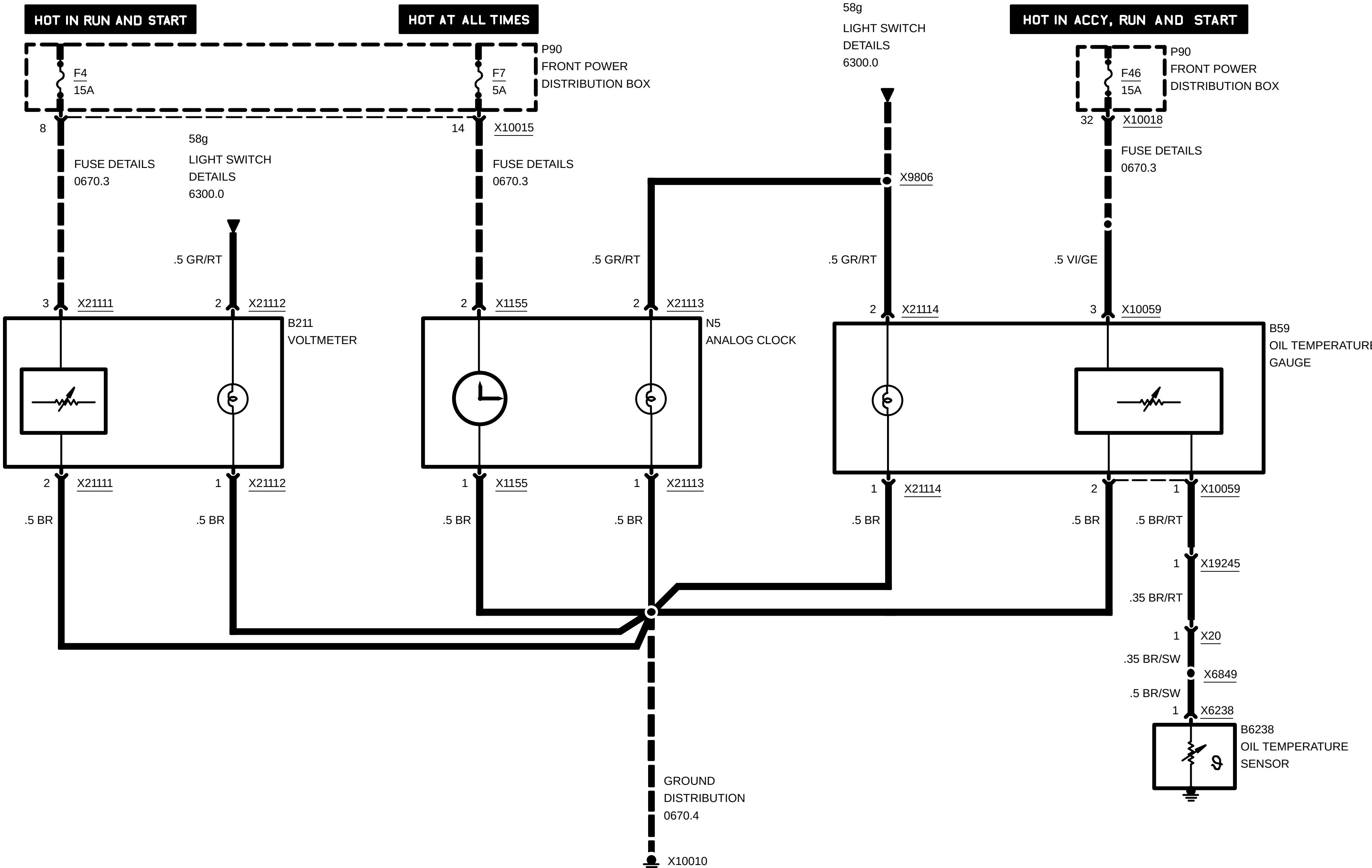



HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
1 X209
2.5 GN
7 X33
2.5 GN
X203
1.5 GN
X1100
POWER
DISTRIBUTION
0670.2
.5 GN
5 X17
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F27
5A
14 X10017
FUSE DETAILS
0670.3
DATA LINK
0670.5
.5 WS/GE
.5 WS/VI
23
11
12 X16
RXD
TXD
A2w
INSTRUMENT
CLUSTER
PARK
BRAKE
ABS
31
6 X17
17 X16
12
11
21 X17
.5 BL
CHARGING
SYSTEM
1230.0
.5 BR/GN
X1682
.5 BR/GN
1 X423
S31
PARK BRAKE
SWITCH
1) BRAKE SET
2) BRAKE NOT
SET
.5 BR/GN
.5 BL/BR
.5 GR/SW/GE
76
31
30 X1175
A52
SLIP CONTROL
MODULE
(ABS/ASC)
GROUND
DISTRIBUTION
0670.4
X9633

INSTRUMENT CLUSTER

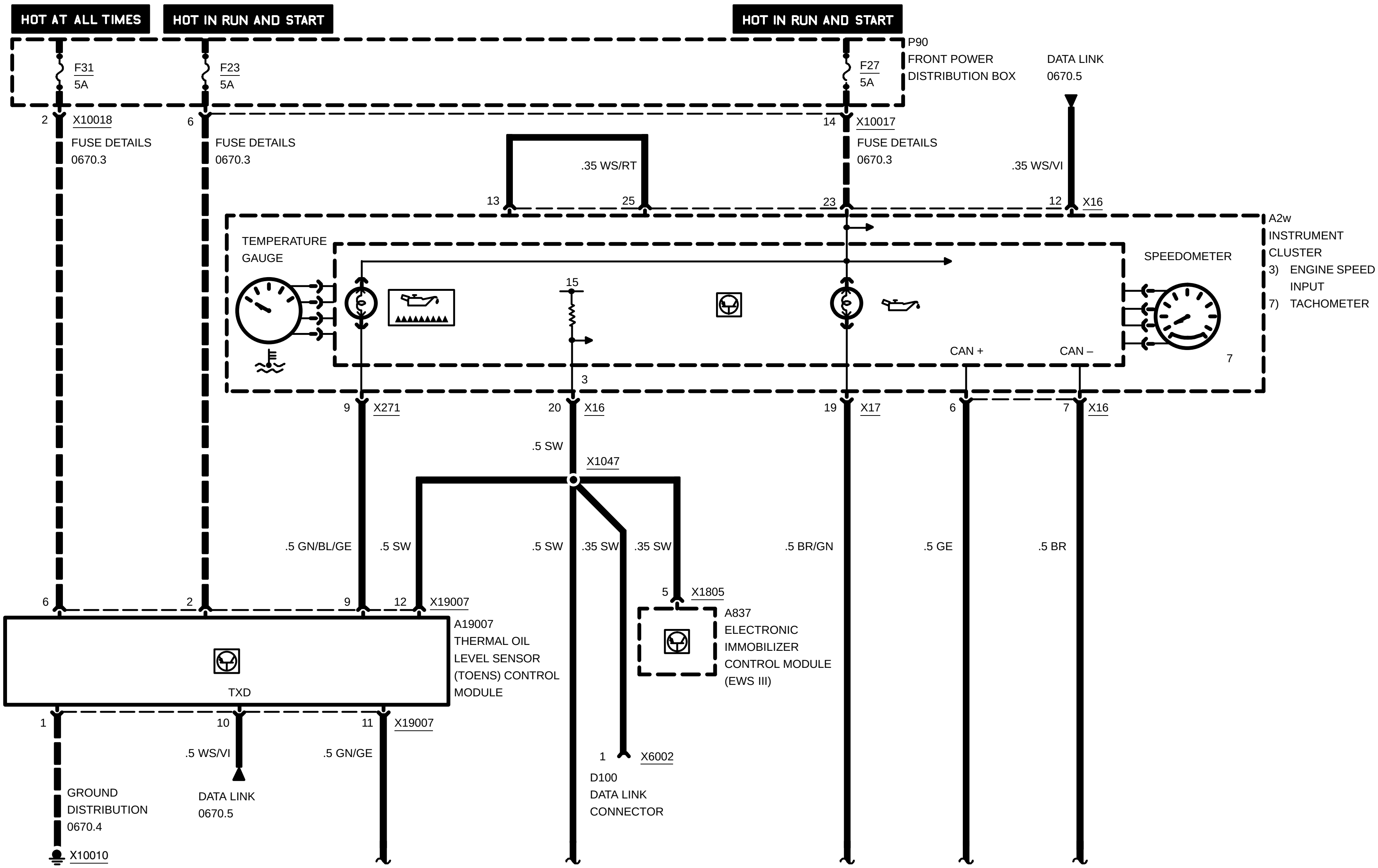
CONSOLE INSTRUMENTS

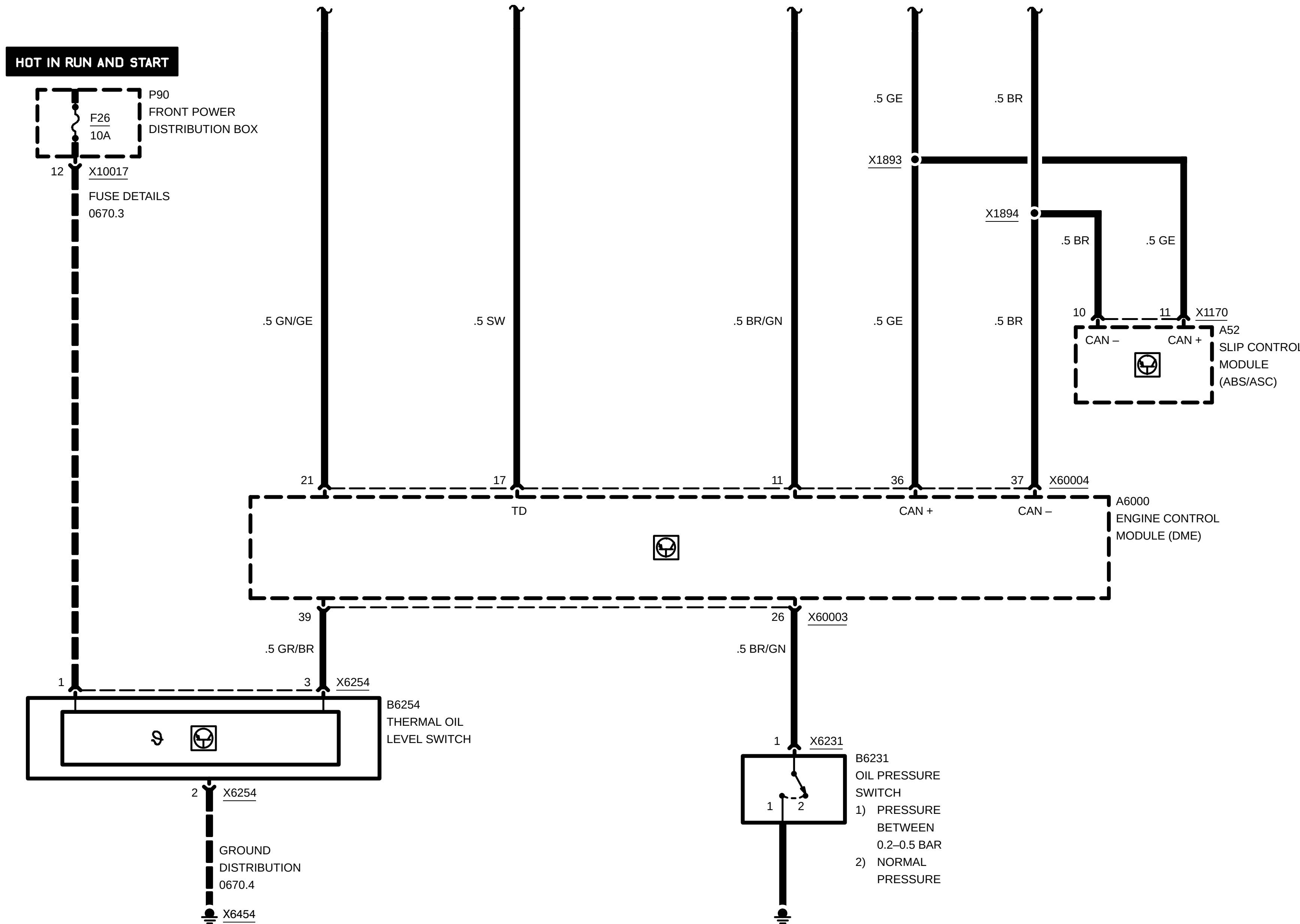
M VERSIONS



INSTRUMENT CLUSTER
INDICATORS

Z3 VERSIONS

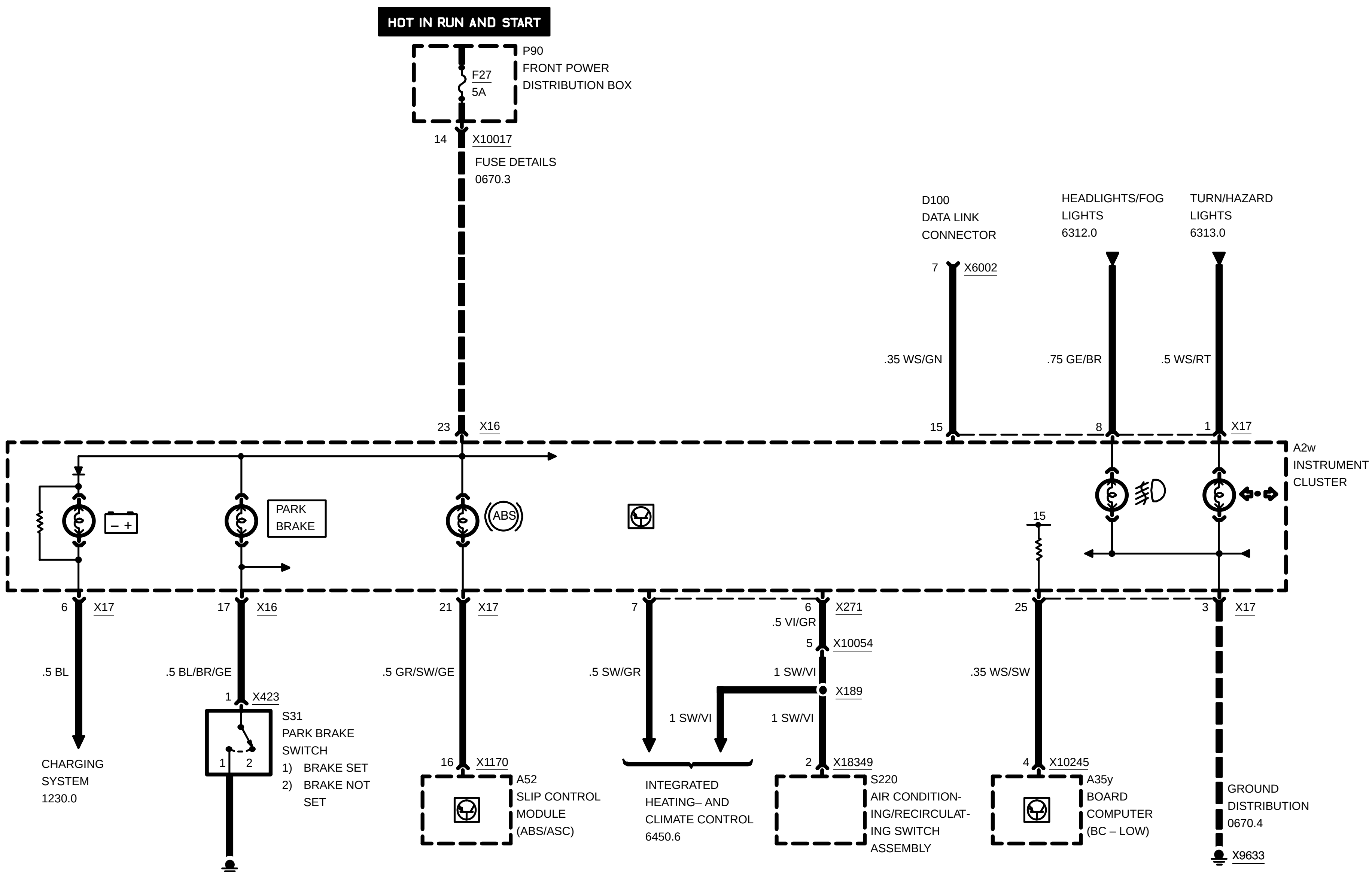



HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F26
10A
12
X10017
FUSE DETAILS
0670.3
.5 GN/GE
.5 SW
.5 BR/GN
.5 GE
.5 BR
X1893
X1894
.5 BR
.5 GE
10
11
X1170
CAN –
CAN +
A52
SLIP CONTROL
MODULE
(ABS/ASC)
21
17
11
36
37
X60004
TD
CAN +
CAN –
A6000
ENGINE CONTROL
MODULE (DME)
39
26
X60003
.5 GR/BR
.5 BR/GN
1
3
X6254
B6254
THERMAL OIL
LEVEL SWITCH
2
X6254
GROUND
DISTRIBUTION
0670.4
X6454
1
X6231
B6231
OIL PRESSURE
SWITCH
1
2
1) PRESSURE
BETWEEN
0.2–0.5 BAR
2) NORMAL
PRESSURE

BMW 3 Z3

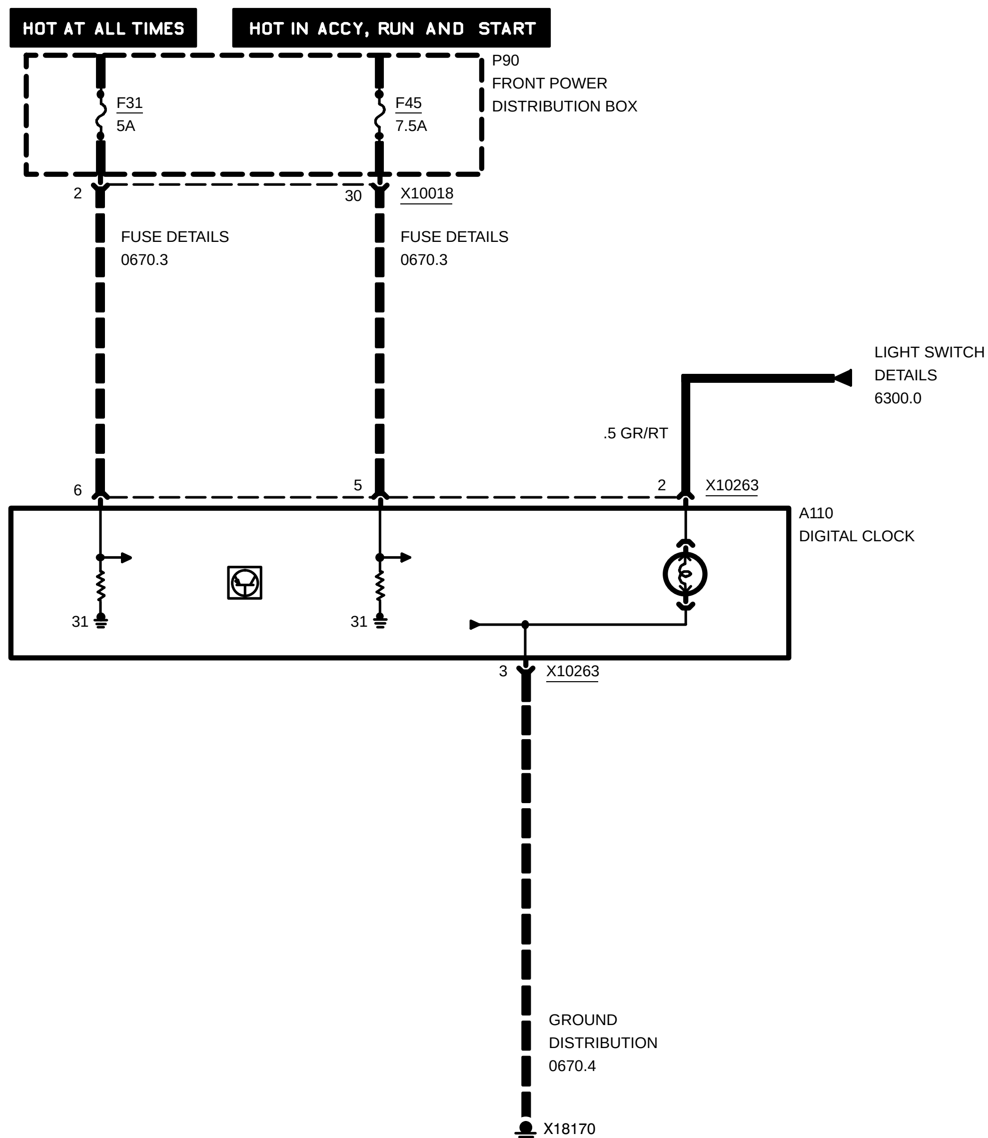
INSTRUMENT CLUSTER

INDICATORS



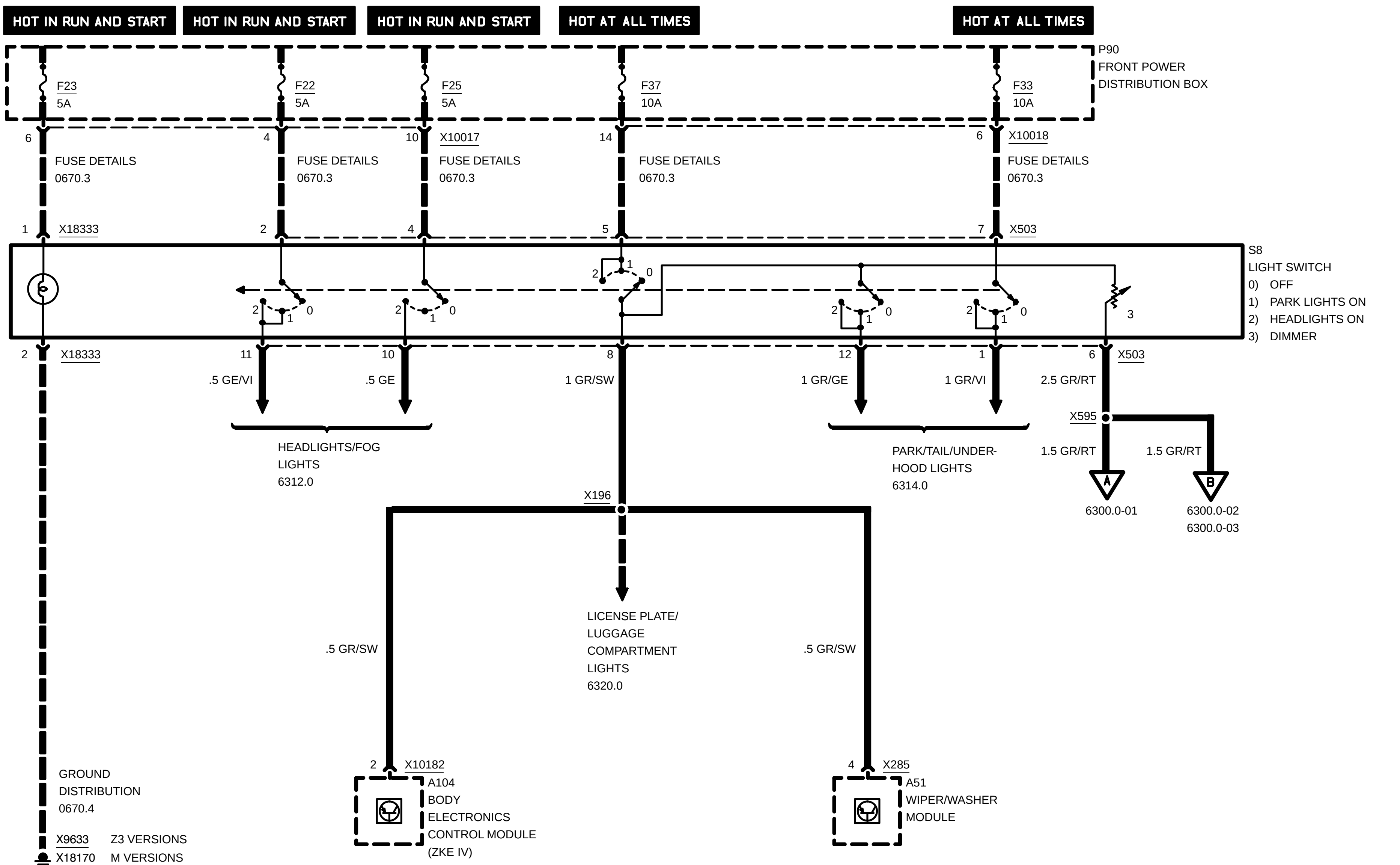
6213.3 DIGITAL CLOCK

Z3 VERSIONS

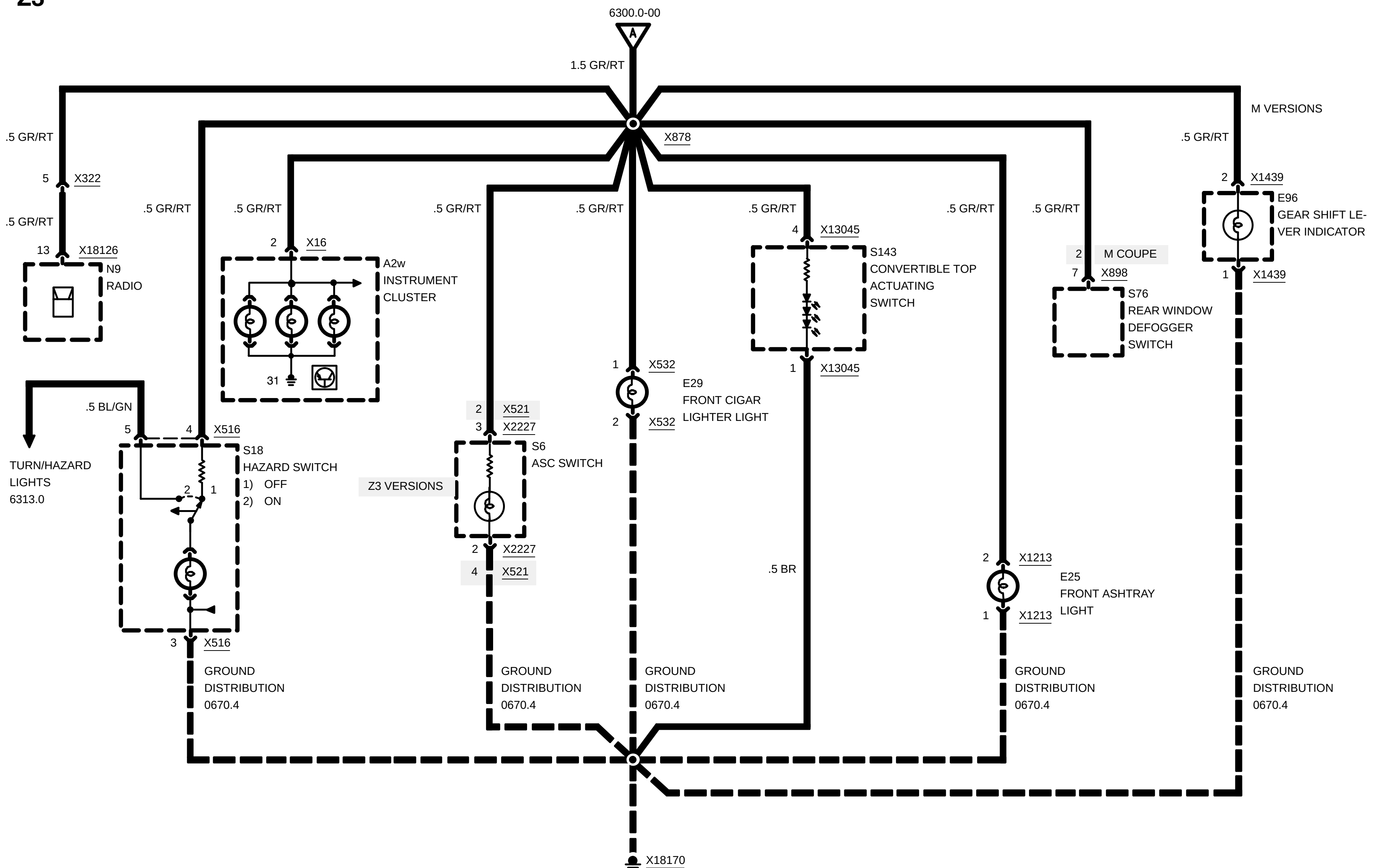


6300.0 LIGHT SWITCH DETAILS

BMW 3
Z3

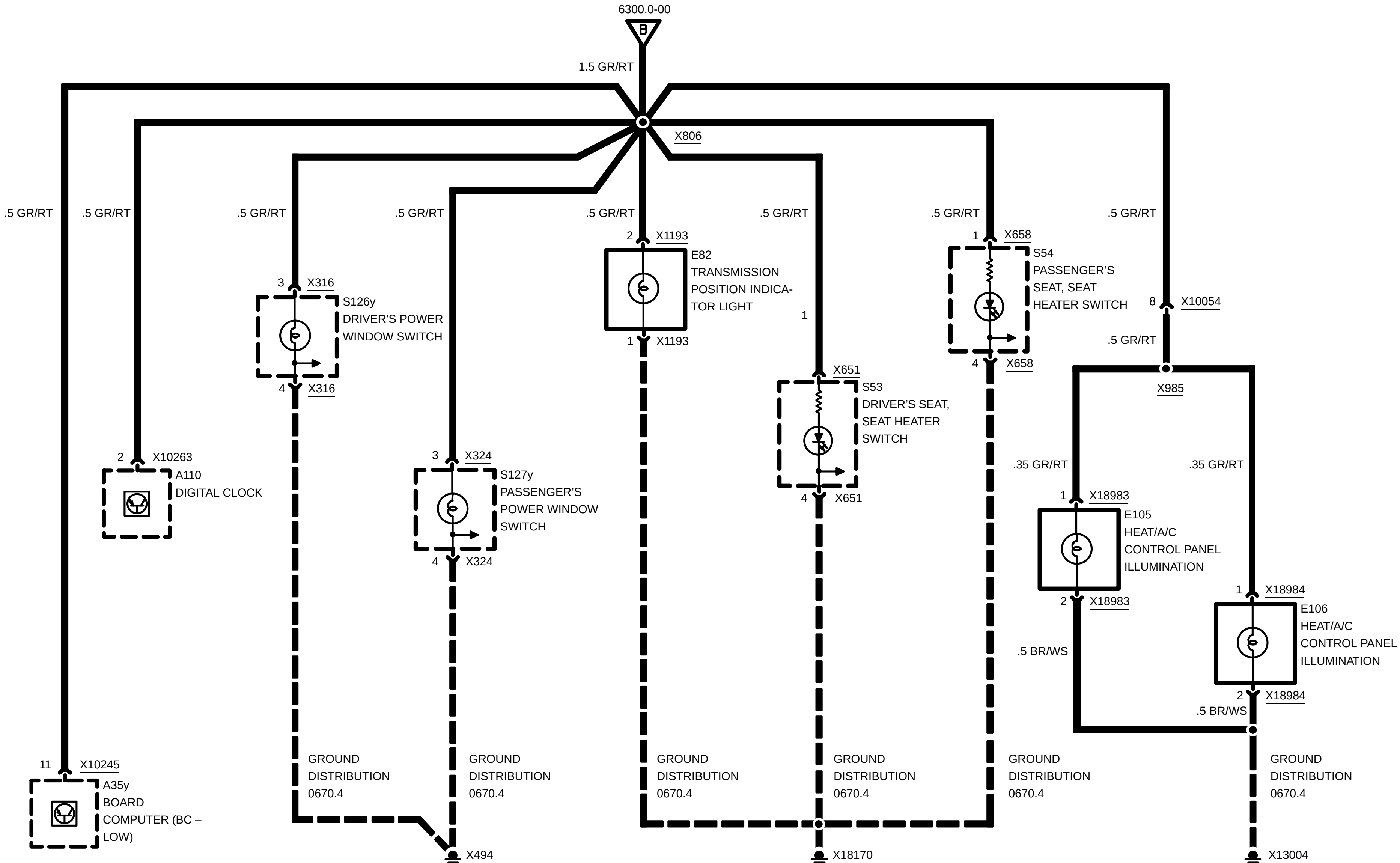


LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

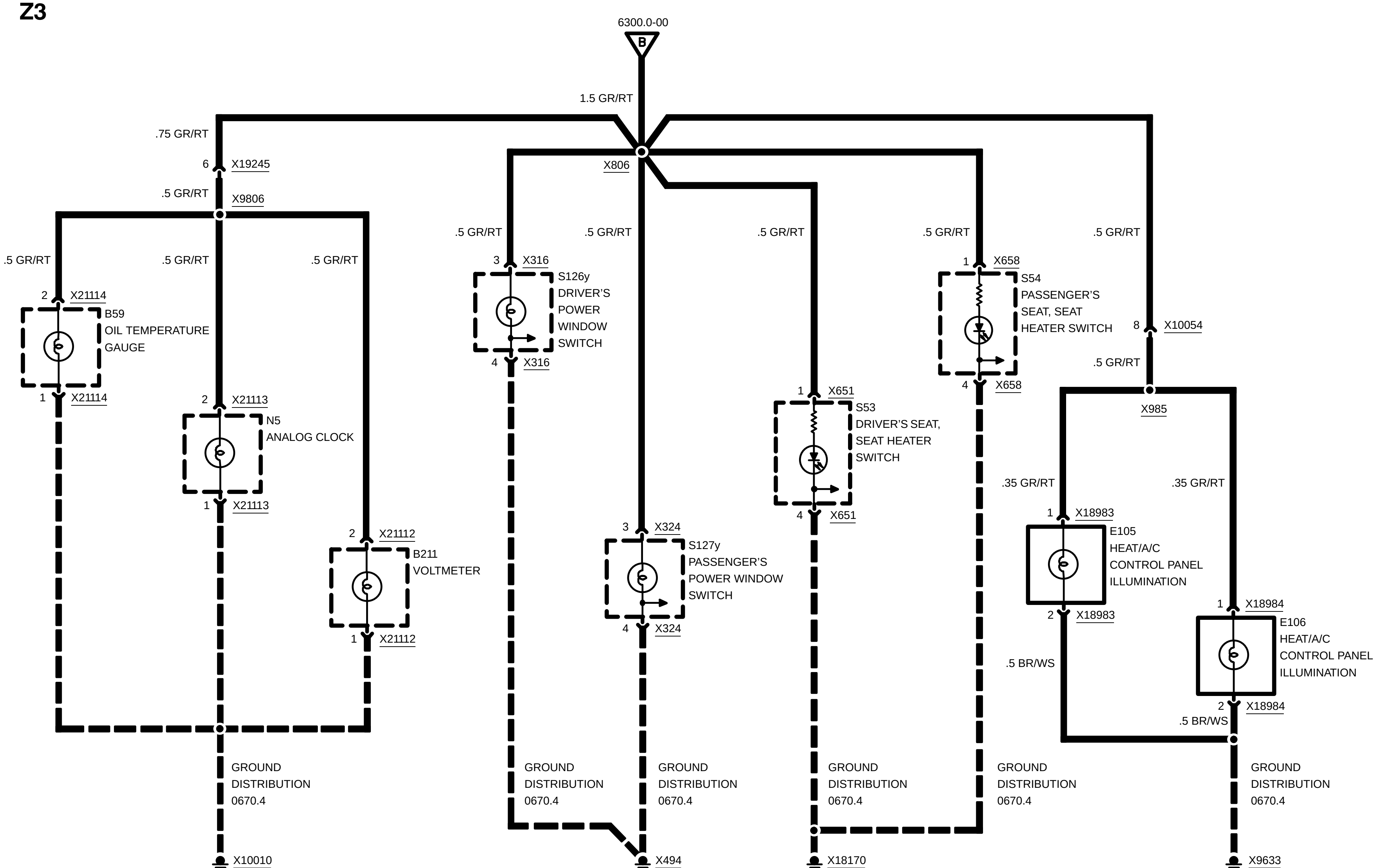
Z3 VERSIONS



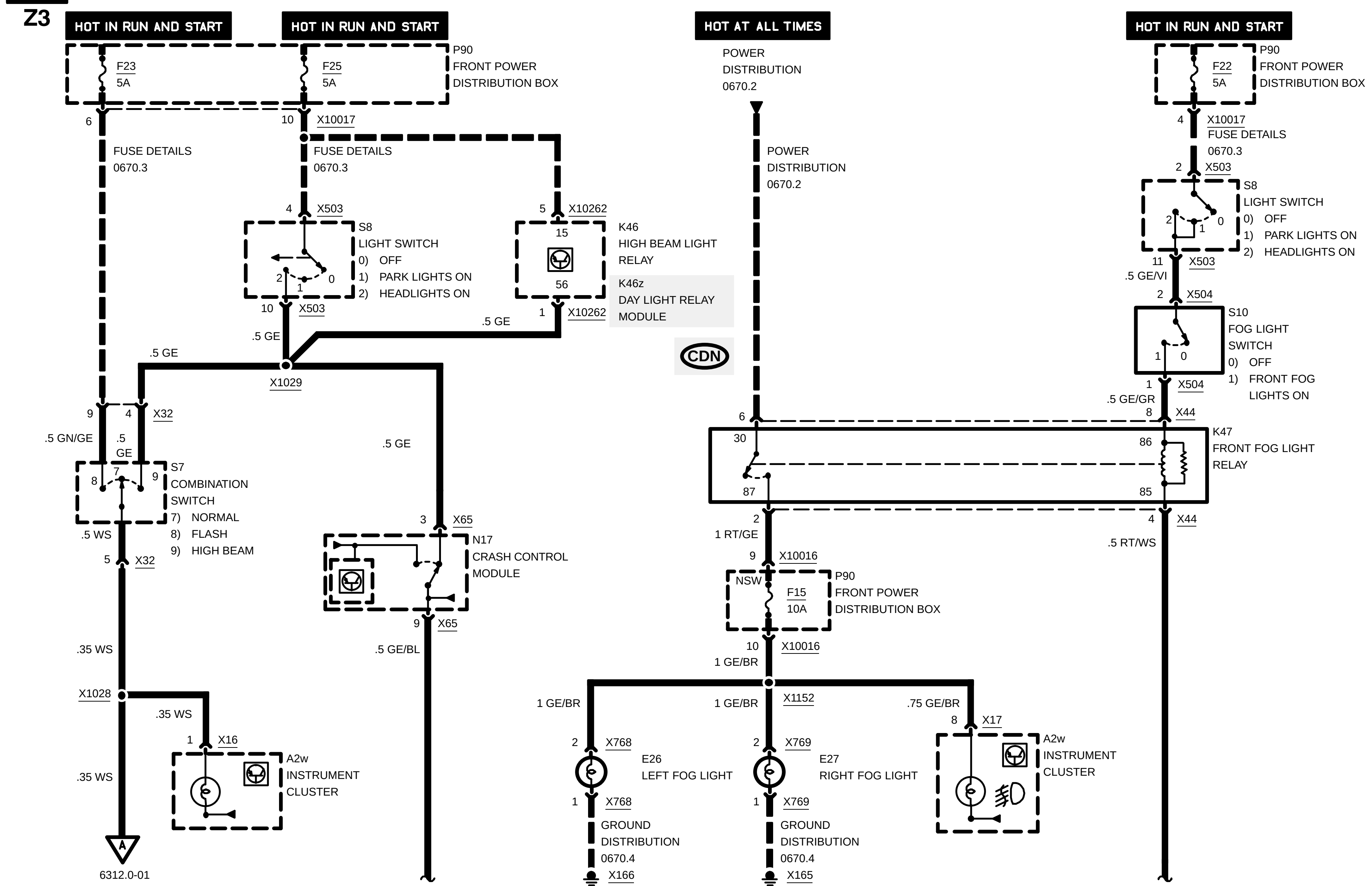
BMW 3 Z3

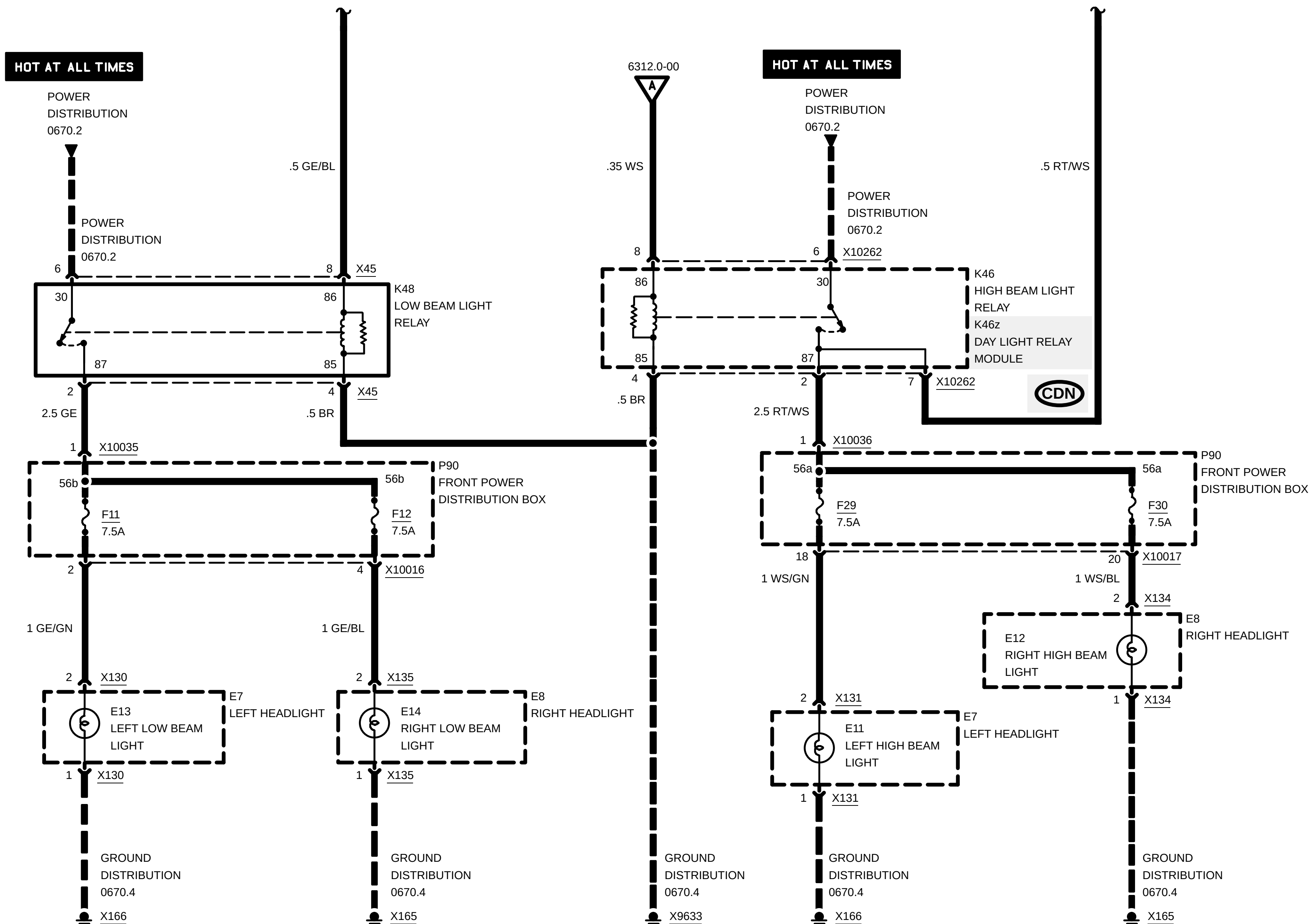
LIGHT SWITCH DETAILS

M VERSIONS

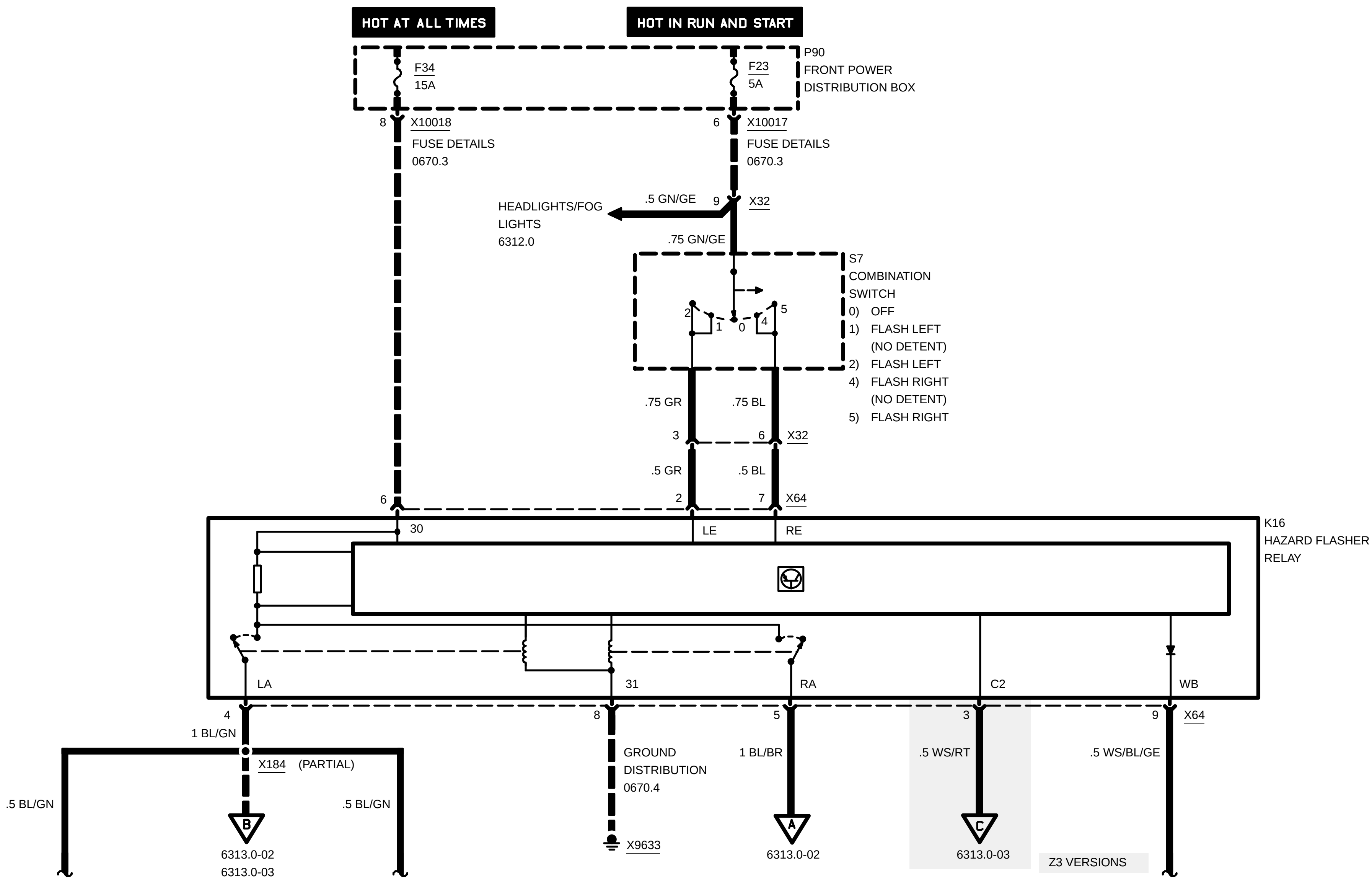


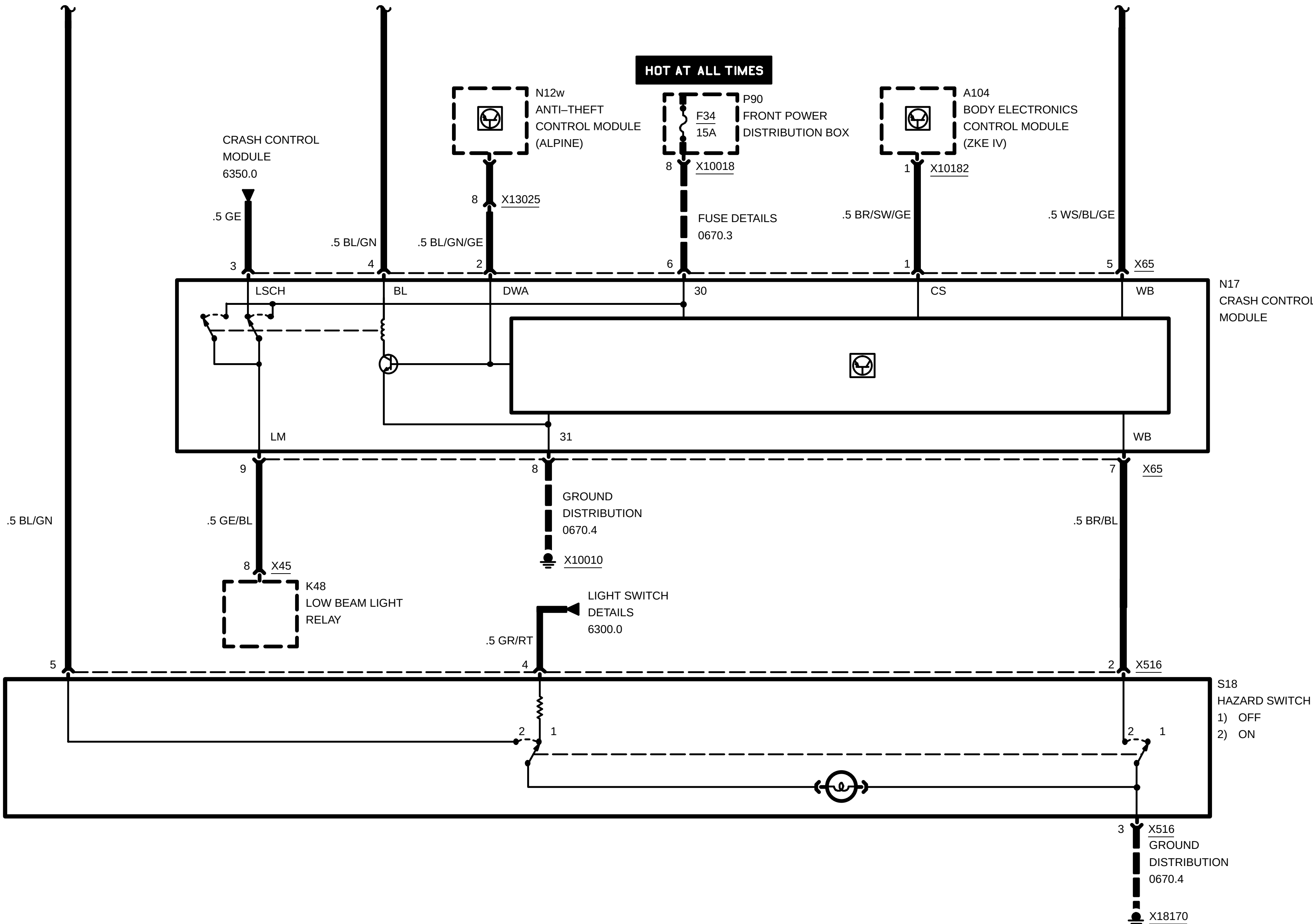
6312.0 HEADLIGHTS/FOG LIGHTS



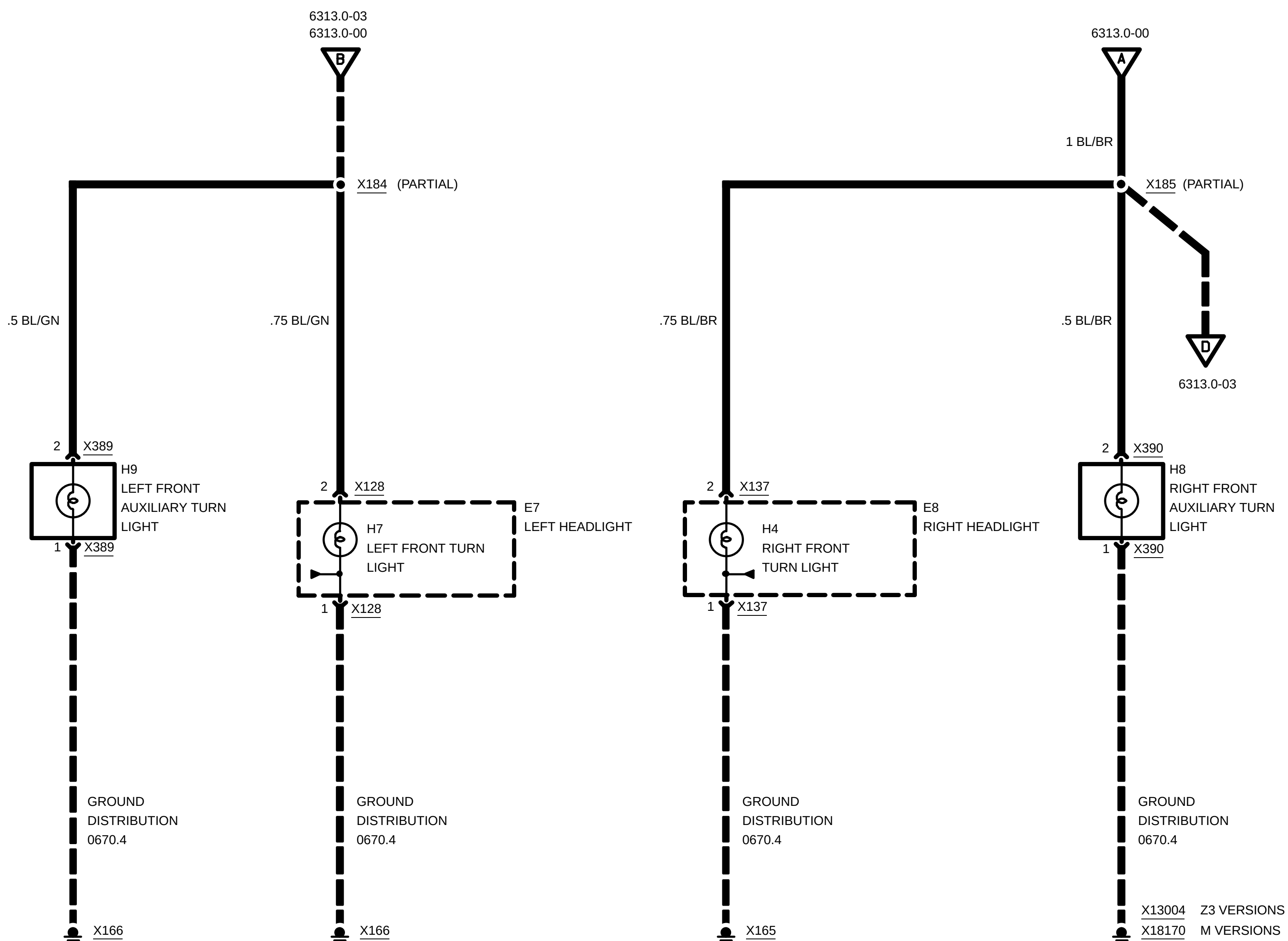

HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION 0670.2
.5 GE/BL
6
8
X45
30
86
K48
LOW BEAM LIGHT RELAY
87
85
2
4
X45
2.5 GE
.5 BR
1
X10035
P90
FRONT POWER DISTRIBUTION BOX
56b
56b
F11
7.5A
F12
7.5A
2
4
X10016
1 GE/GN
1 GE/BL
2
X130
2
X135
E7
LEFT HEADLIGHT
E13
LEFT LOW BEAM LIGHT
E8
RIGHT HEADLIGHT
E14
RIGHT LOW BEAM LIGHT
1
X130
1
X135
GROUND DISTRIBUTION 0670.4
X166
GROUND DISTRIBUTION 0670.4
X165
6312.0-00
A
.35 WS
HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION 0670.2
.5 RT/WS
8
6
X10262
86
30
K46
HIGH BEAM LIGHT RELAY
K46z
DAY LIGHT RELAY MODULE
85
87
4
2
7
X10262
CDN
.5 BR
2.5 RT/WS
1
X10036
P90
FRONT POWER DISTRIBUTION BOX
56a
56a
F29
7.5A
F30
7.5A
18
20
X10017
1 WS/GN
1 WS/BL
2
X134
E8
RIGHT HEADLIGHT
E12
RIGHT HIGH BEAM LIGHT
1
X134
2
X131
E7
LEFT HEADLIGHT
E11
LEFT HIGH BEAM LIGHT
1
X131
GROUND DISTRIBUTION 0670.4
X9633
GROUND DISTRIBUTION 0670.4
X166
GROUND DISTRIBUTION 0670.4
X165

6313.0 TURN/HAZARD LIGHTS

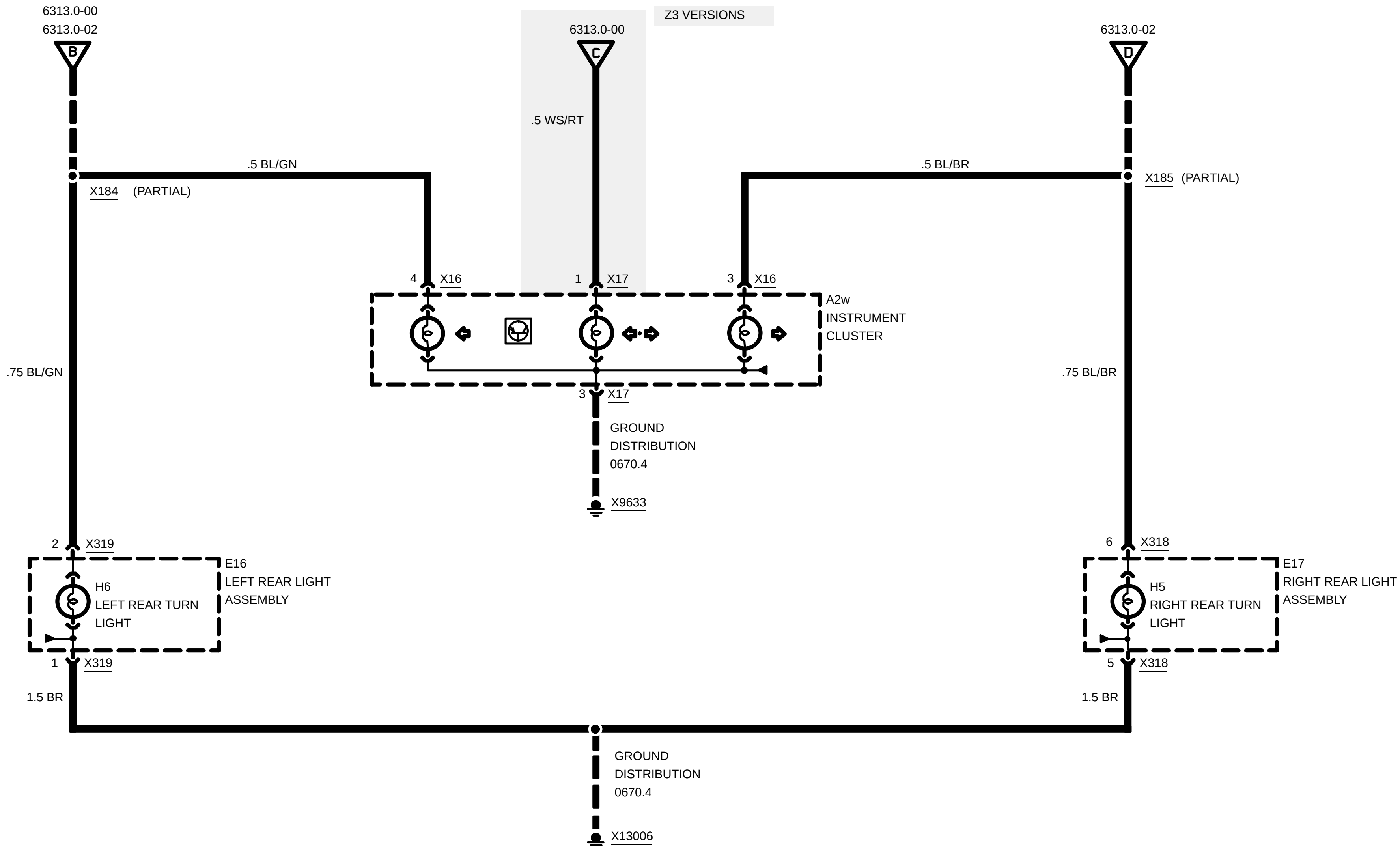



HOT AT ALL TIMES
CRASH CONTROL MODULE 6350.0
N12w ANTI–THEFT CONTROL MODULE (ALPINE)
P90 FRONT POWER DISTRIBUTION BOX
F34 15A
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
X13025
X10018
X10182
FUSE DETAILS 0670.3
.5 GE
.5 BL/GN
.5 BL/GN/GE
.5 BR/SW/GE
.5 WS/BL/GE
X65
LSCH
BL
DWA
30
CS
WB
N17 CRASH CONTROL MODULE
LM
31
GROUND DISTRIBUTION 0670.4
X10010
.5 GE/BL
.5 BR/BL
X45
K48 LOW BEAM LIGHT RELAY
LIGHT SWITCH DETAILS 6300.0
.5 GR/RT
X516
S18 HAZARD SWITCH
1) OFF
2) ON
X18170

TURN/HAZARD LIGHTS

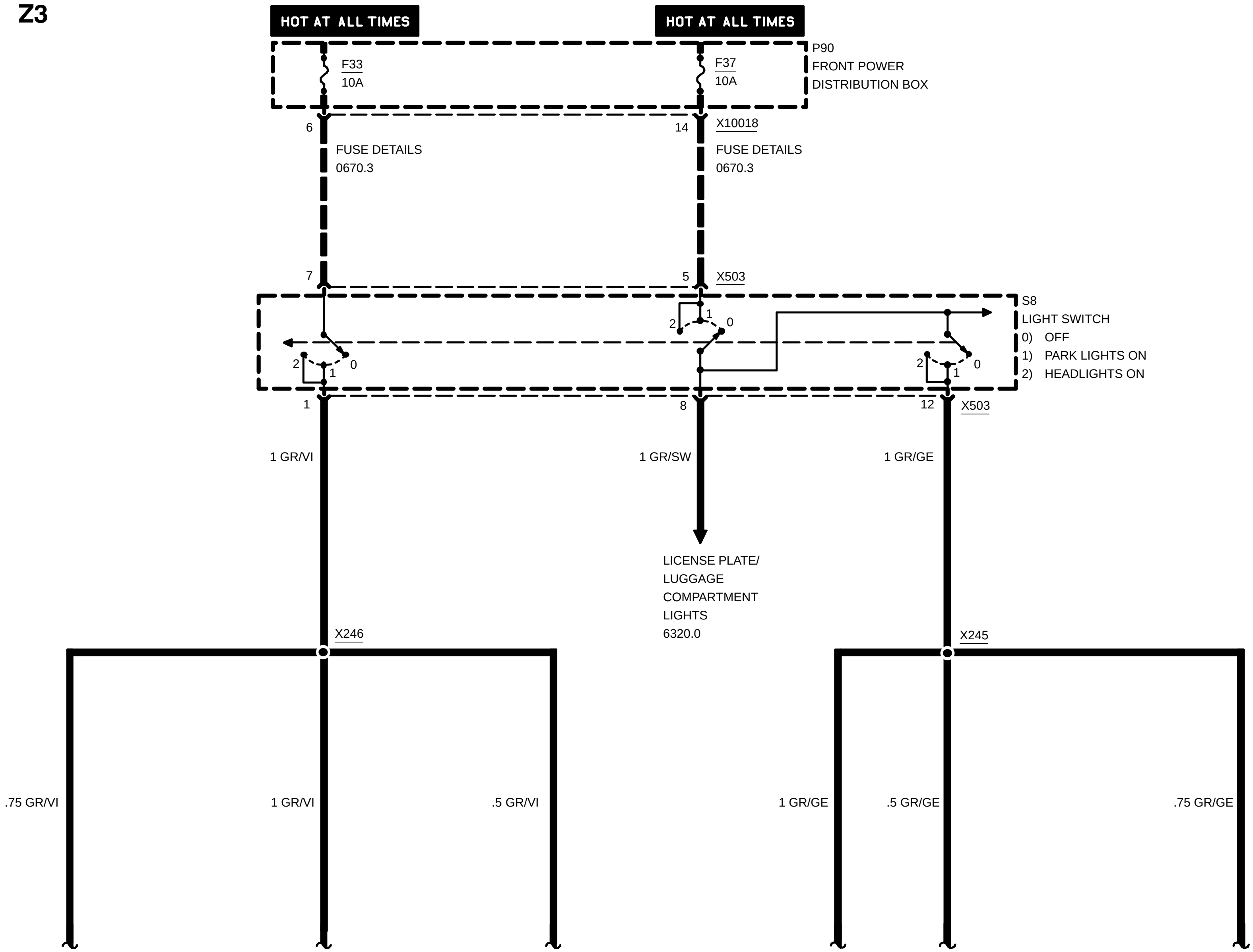


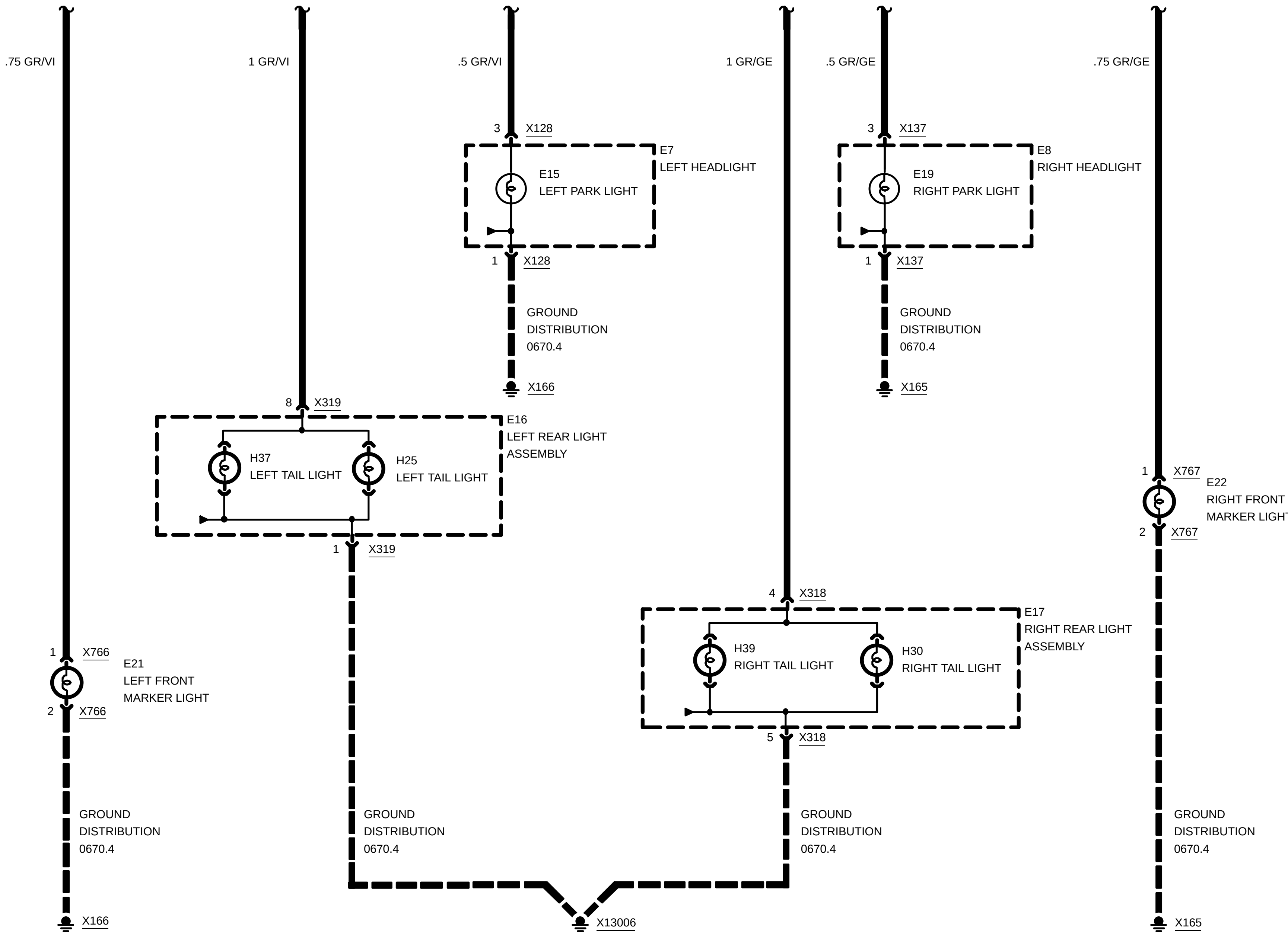
TURN/HAZARD LIGHTS



BMW 3 Z3

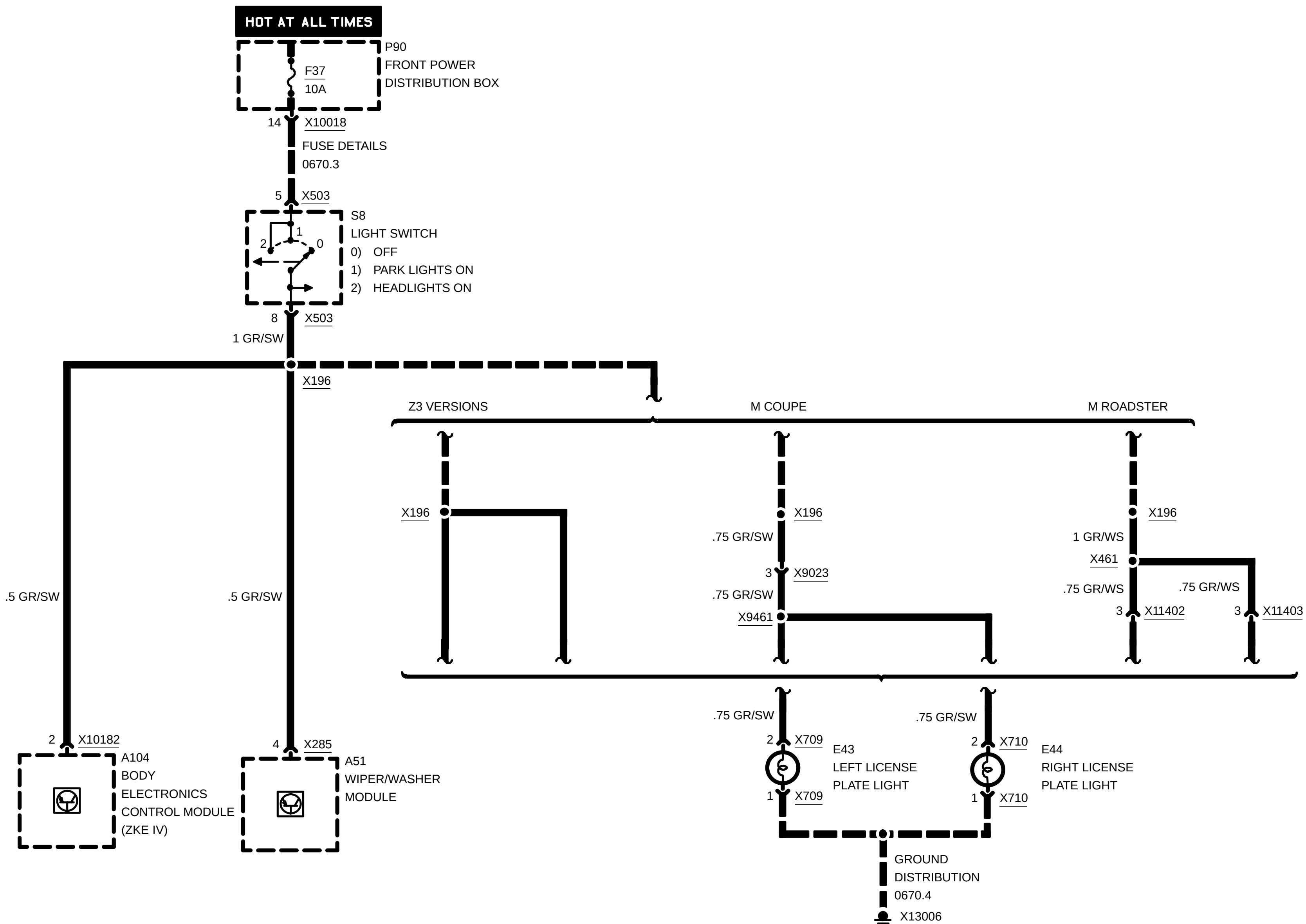
6314.0 PARK/TAIL/UNDERHOOD LIGHTS





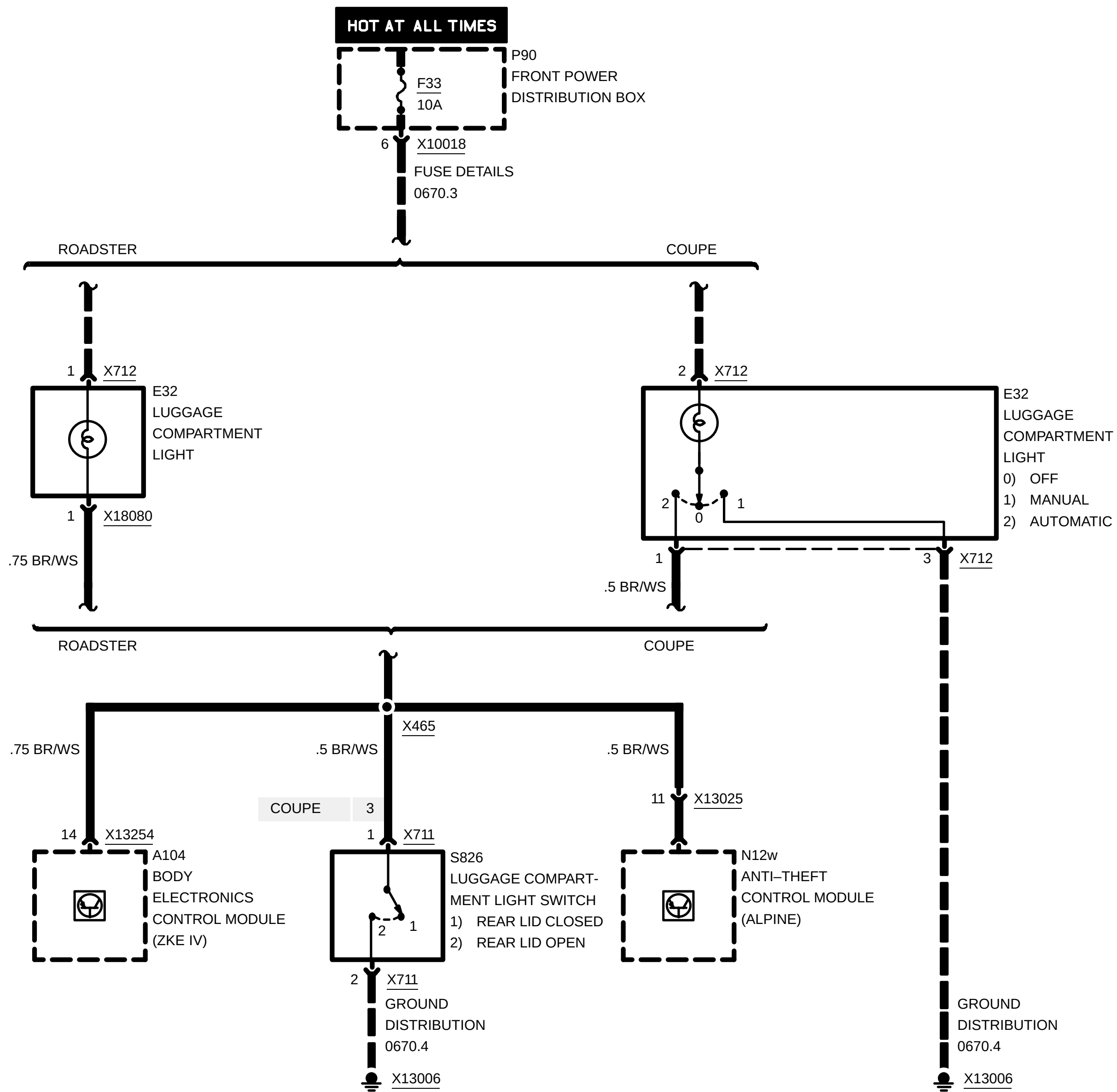
.75 GR/VI
1 GR/VI
.5 GR/VI
1 GR/GE
.5 GR/GE
.75 GR/GE
3 X128
E7
LEFT HEADLIGHT
E15
LEFT PARK LIGHT
1 X128
GROUND
DISTRIBUTION
0670.4
X166
3 X137
E8
RIGHT HEADLIGHT
E19
RIGHT PARK LIGHT
1 X137
GROUND
DISTRIBUTION
0670.4
X165
8 X319
E16
LEFT REAR LIGHT
ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT TAIL LIGHT
1 X319
1 X767
E22
RIGHT FRONT
MARKER LIGHT
2 X767
4 X318
E17
RIGHT REAR LIGHT
ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
5 X318
1 X766
E21
LEFT FRONT
MARKER LIGHT
2 X766
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X166
X13006
X165

6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

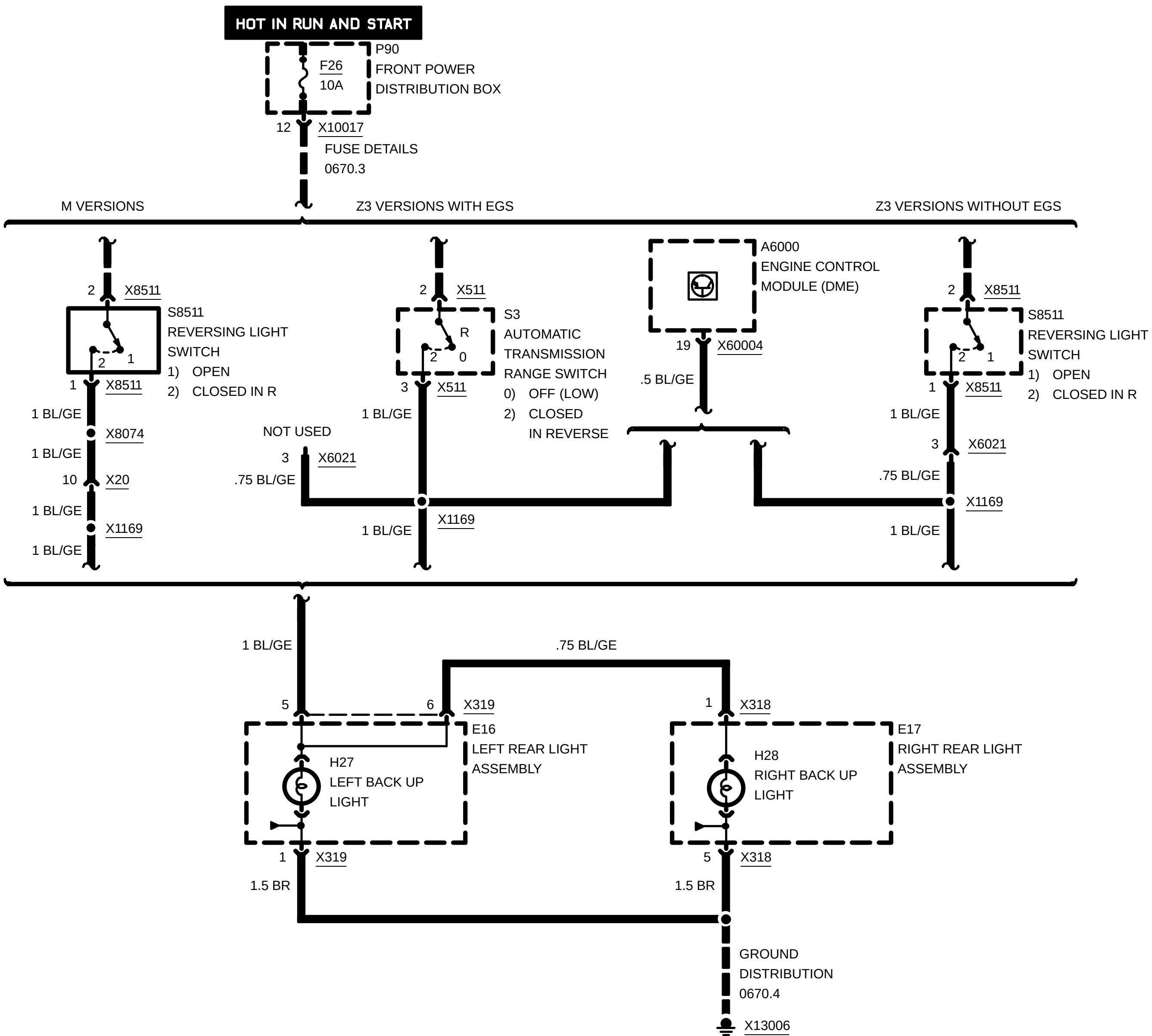


LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

BMW 3 Z3

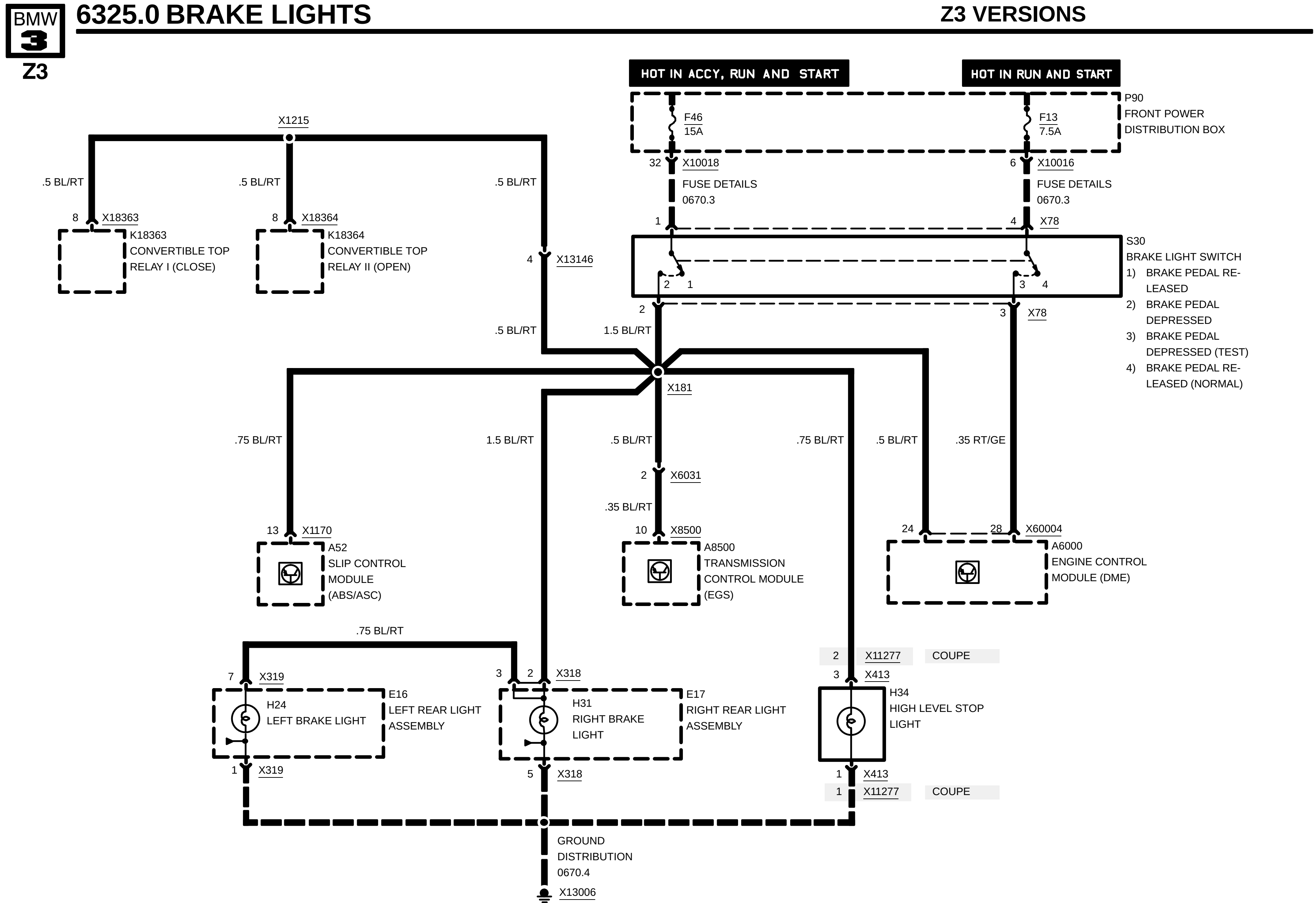


6322.0 BACK UP LIGHTS



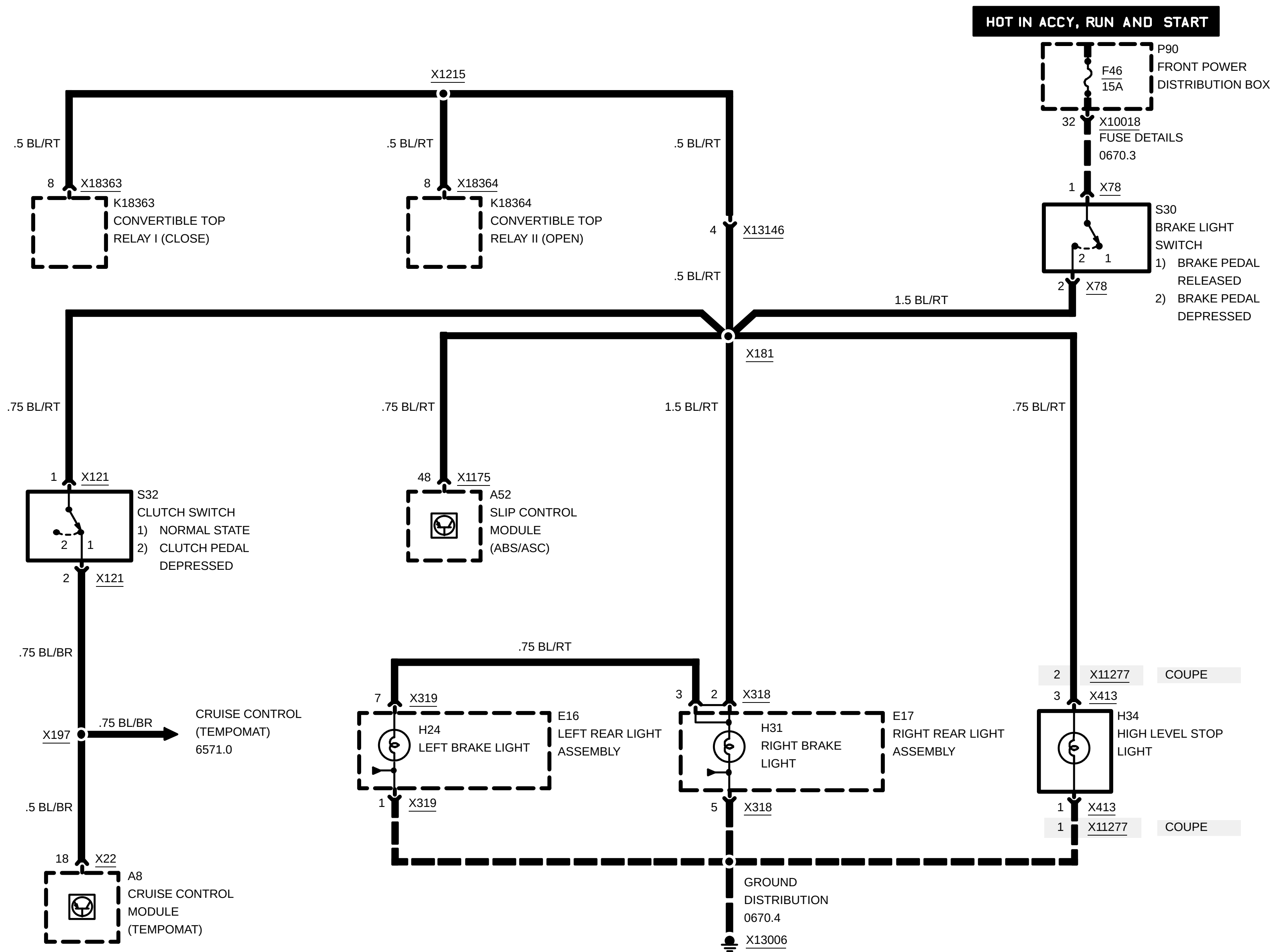
6325.0 BRAKE LIGHTS

Z3 VERSIONS

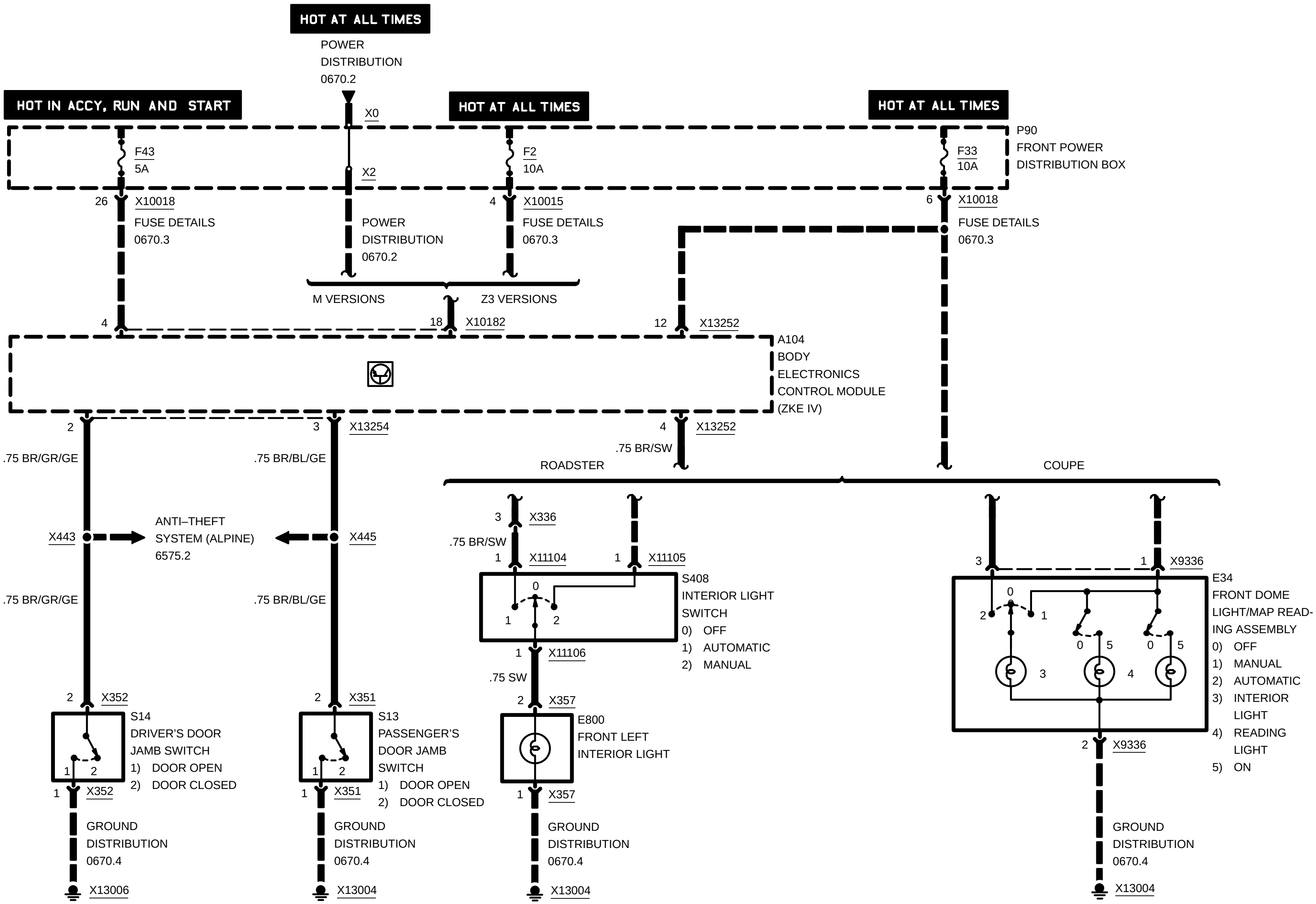


BRAKE LIGHTS

M VERSIONS

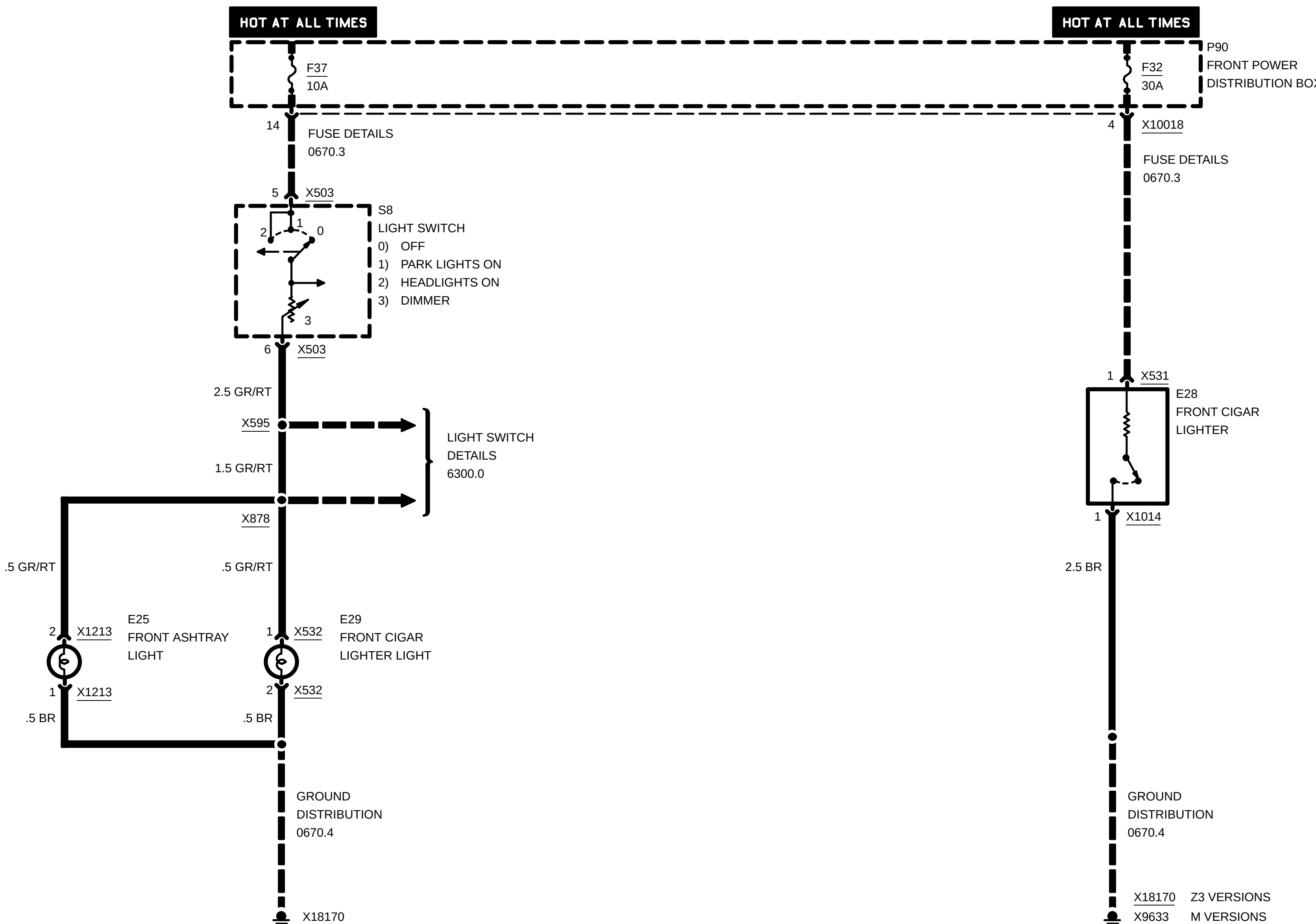


6330.0 INTERIOR LIGHTS

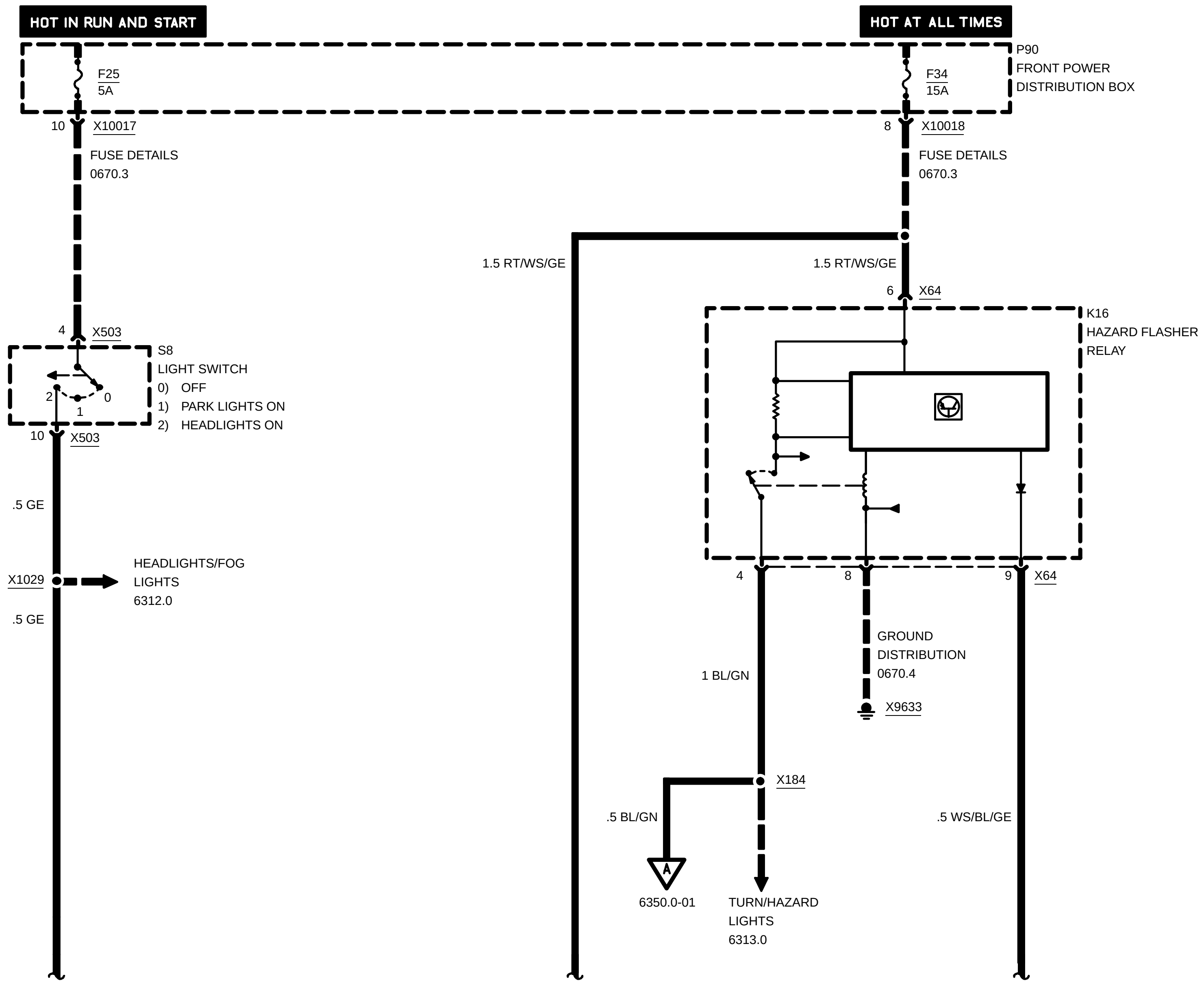


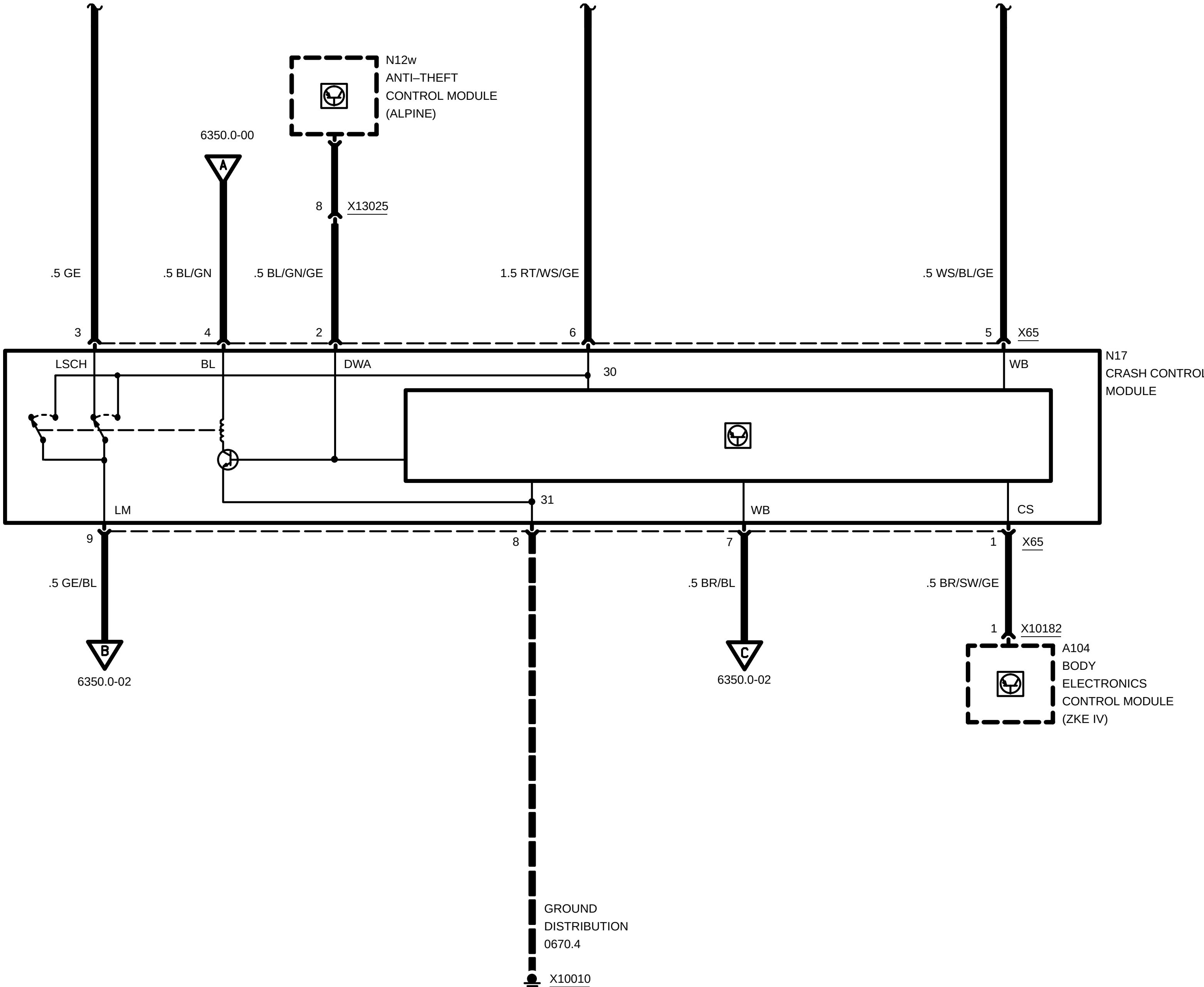
BMW 3 Z3

6332.0 INTERIOR ACCESSORIES

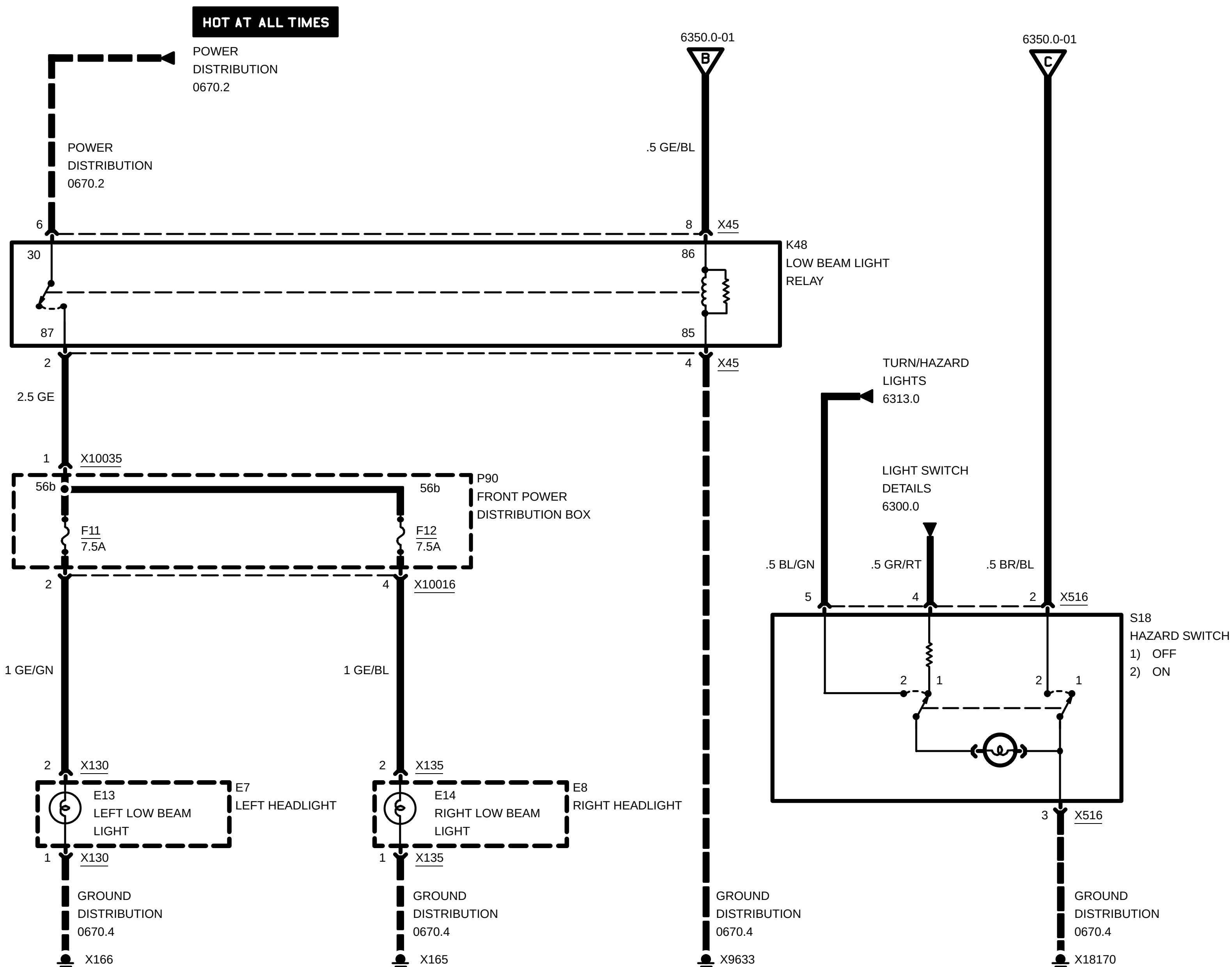


6350.0 CRASH CONTROL MODULE



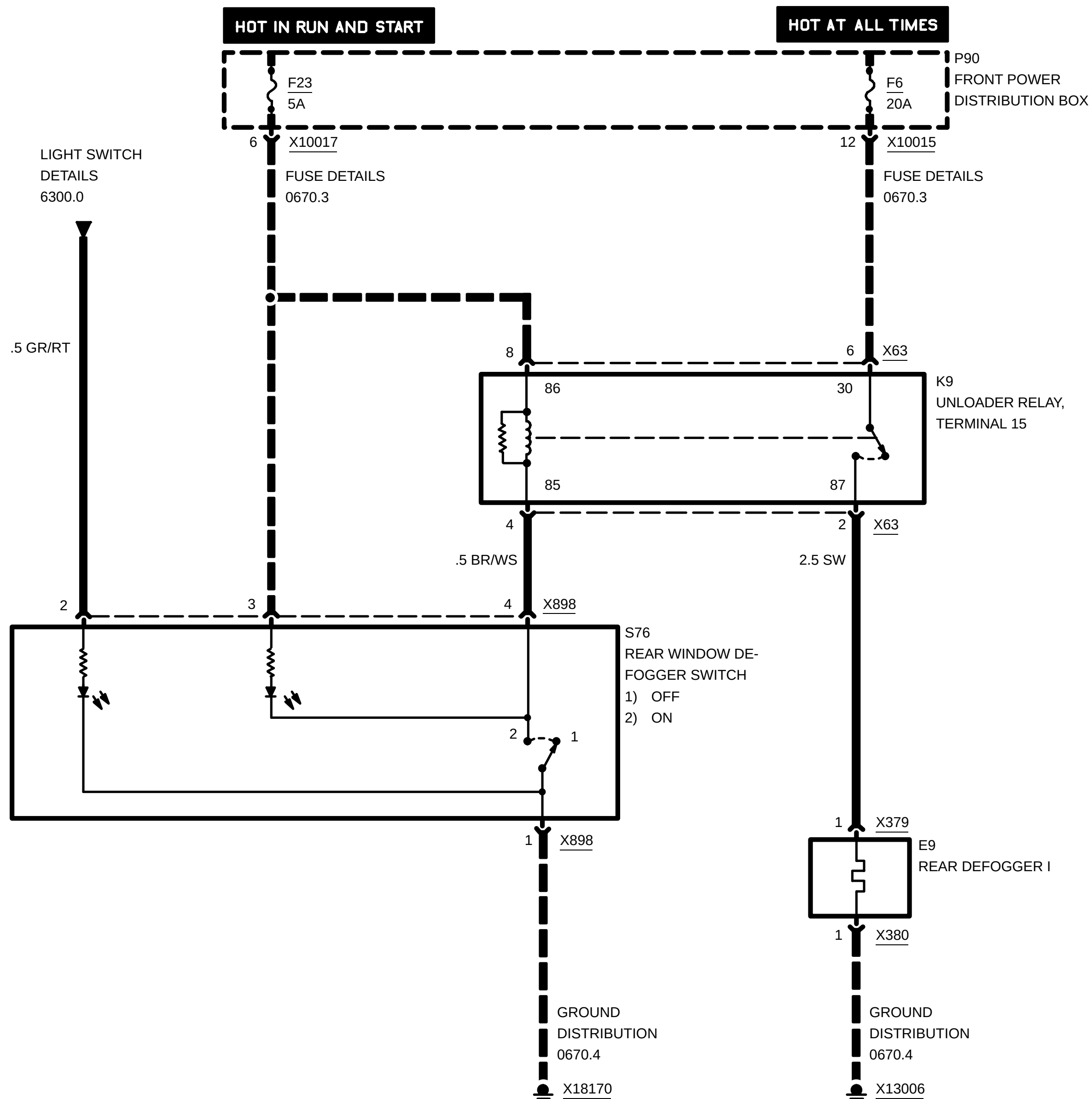

N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
6350.0-00
A
8
X13025
.5 GE
.5 BL/GN
.5 BL/GN/GE
1.5 RT/WS/GE
.5 WS/BL/GE
3
4
2
6
5
X65
N17
CRASH CONTROL
MODULE
LSCH
BL
DWA
30
WB
31
LM
WB
CS
9
8
7
1
X65
.5 GE/BL
.5 BR/BL
.5 BR/SW/GE
1
X10182
B
6350.0-02
C
6350.0-02
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
GROUND
DISTRIBUTION
0670.4
X10010

CRASH CONTROL MODULE

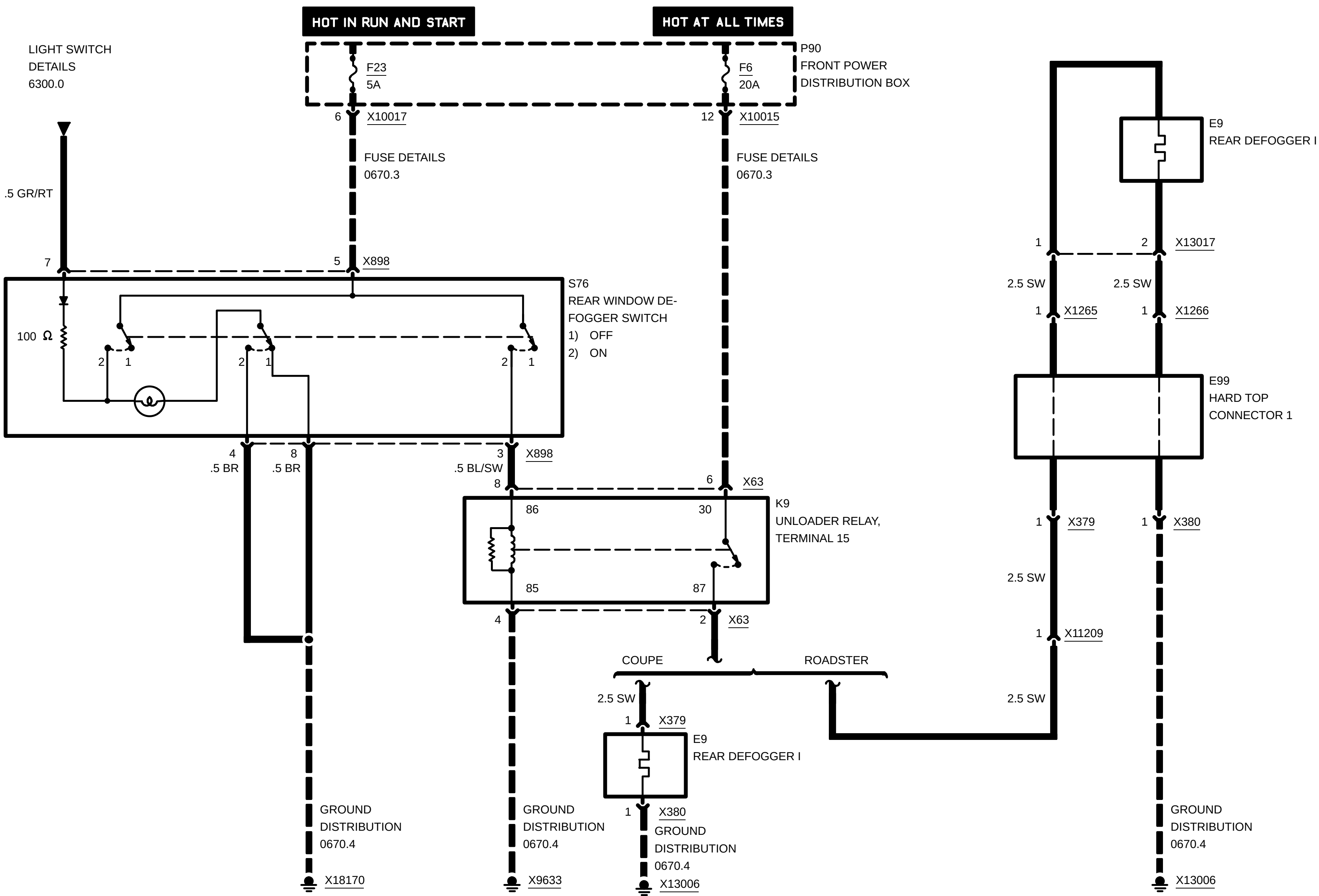


6424.0 REAR WINDOW DEFOGGER

M COUPE

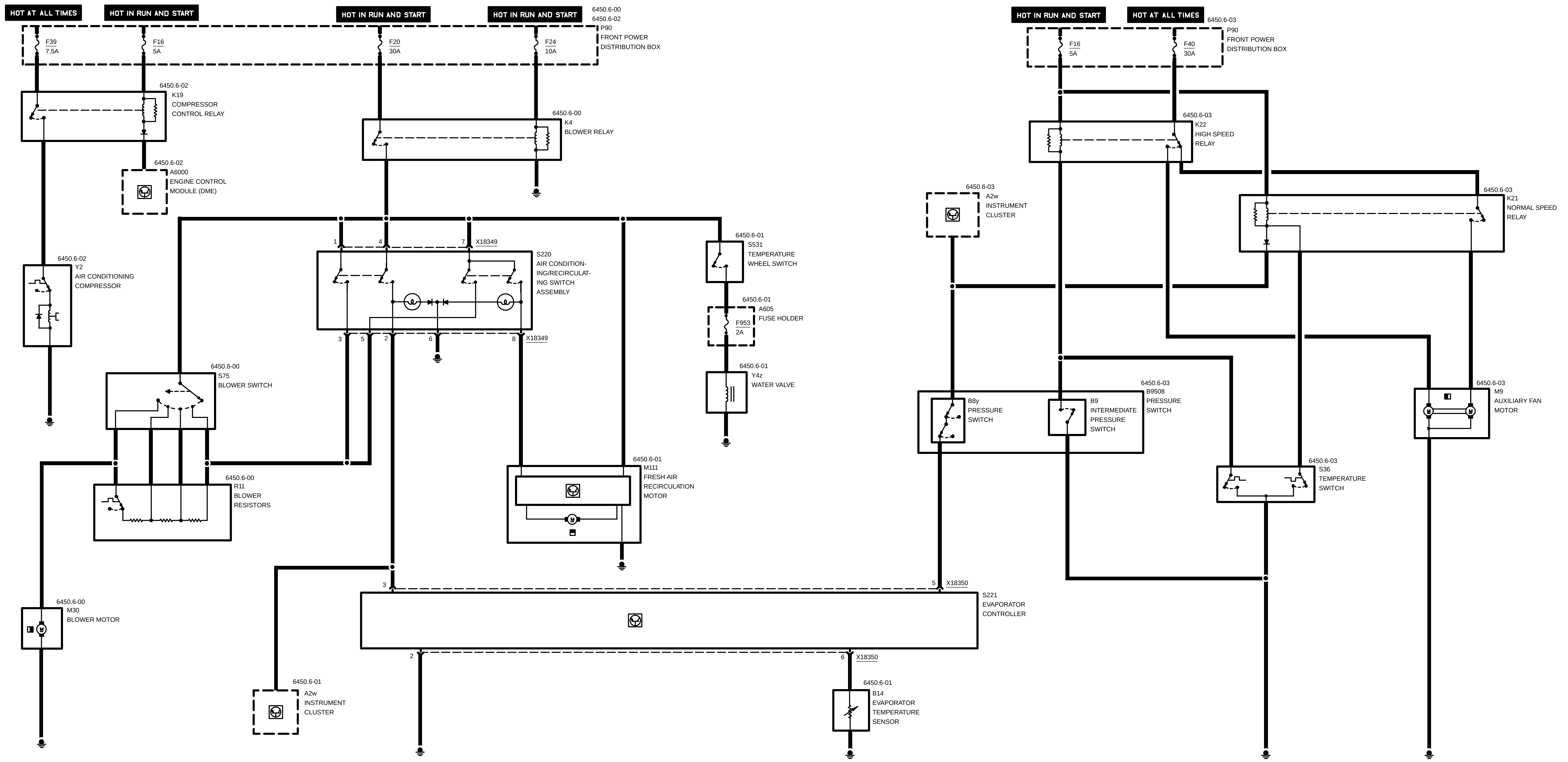


REAR WINDOW DEFOGGER



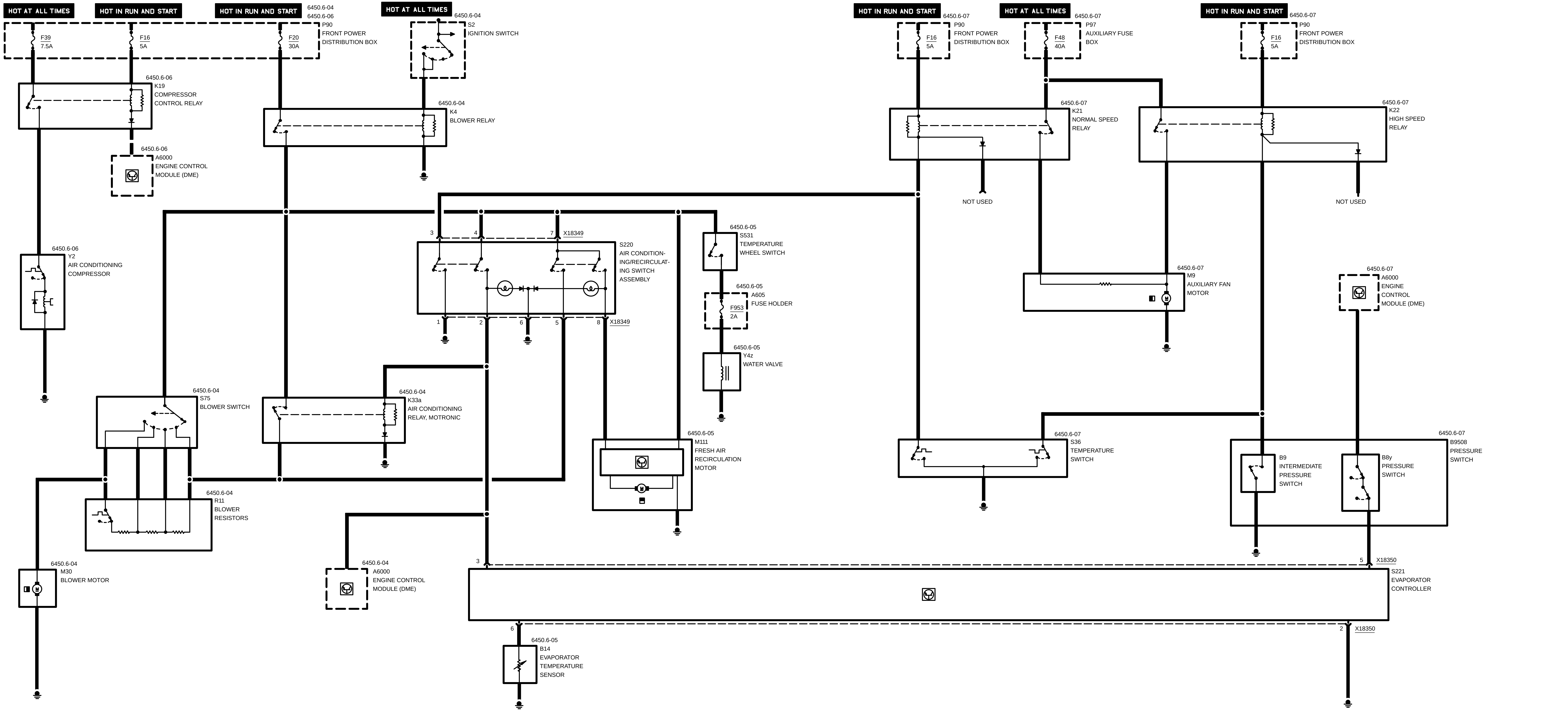
Z3 VERSIONS

AUXILIARY FAN



M VERSIONS

AUXILIARY FAN



Pin Assignments (Z3 Versions)

X18349	8 Pins, black
X18350	6 Pins, black

X18349

Pin	Type	Description/Function	Connection
1	E	Terminal 15	Heating blower relay
2	A	Activate compressor clutch	Instrument cluster
3	A	Blower level 1 (air conditioning)	Blower resistor
4	E	Terminal 15	Heating blower relay
5	A	Blower level 1 (air-recirculation)	Blower resistor
6	M	Ground for function lights	Ground point
7	E	Terminal 15	Heating blower relay
8	A	Activate fresh air-recirculation	Fresh air-recirculation motor

X18350

Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Ground point
3	E	Climate-ON-signal	Air conditioning/recirculated air operating unit
4		Not used	
5	A	Activate A/C compressor	Pressure switch
6	E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground

Pin Assignments (M Versions)

X18349	8 Pins, black
X18350	6 Pins, black

X18349

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	A	A/C-ON-signal	Evaporator controller
3	A	A/C-ON-signal	Normal speed relay
4	E	Terminal 15	Heating blower relay
5	A	Blower level 1 (air-recirculation)	Blower resistor
6	M	Ground for function lights	Ground point
7	E	Terminal 15	Heating blower relay
8	A	Activate fresh air-recirculation	Fresh air-recirculation motor

X18350

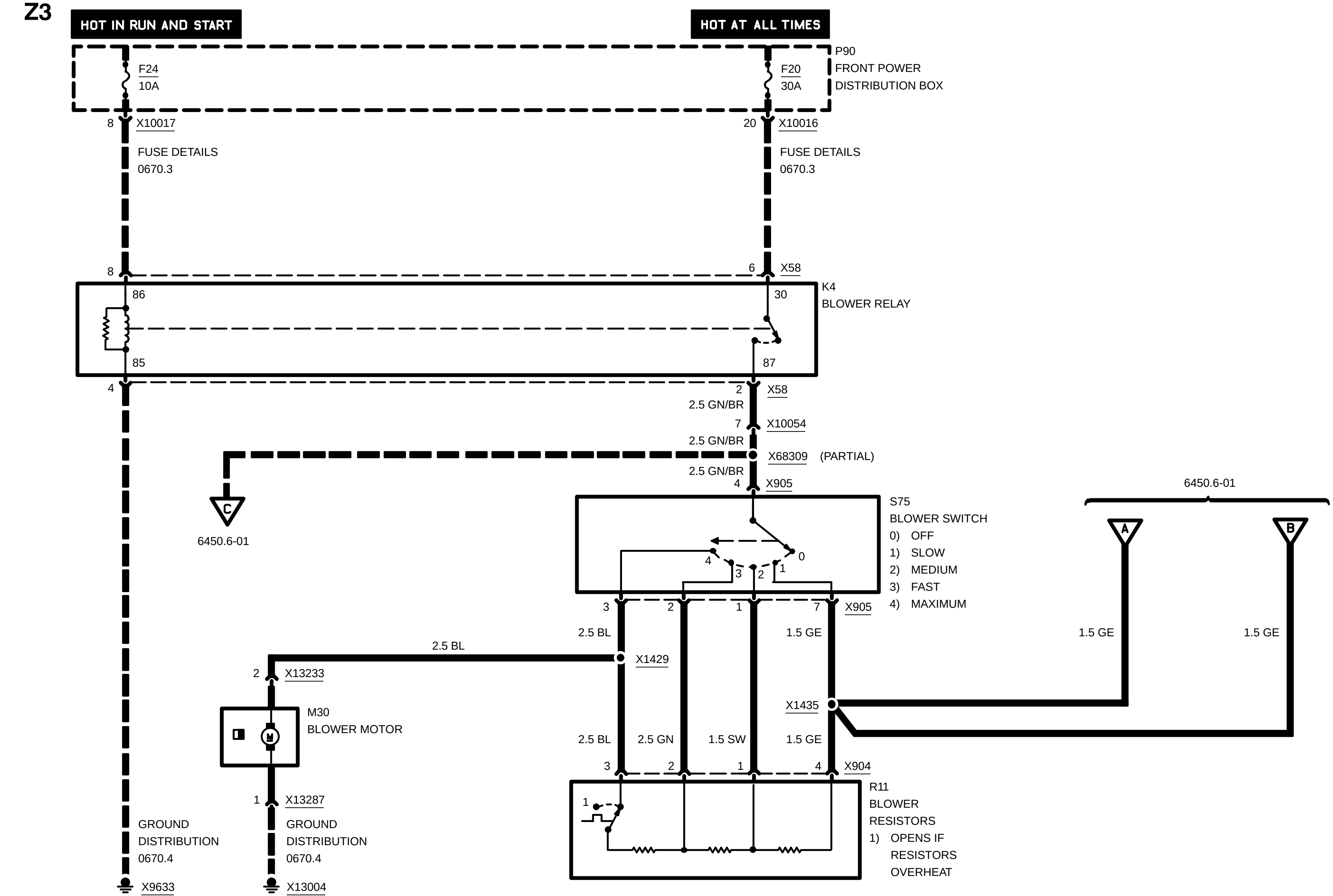
Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Ground point
3	E	Climate-ON-signal	Air conditioning/recirculated air operating unit
4		Not used	
5	A	Activate A/C compressor	Pressure switch
6	E	Evaporator temperature	Evaporator temperature sensor

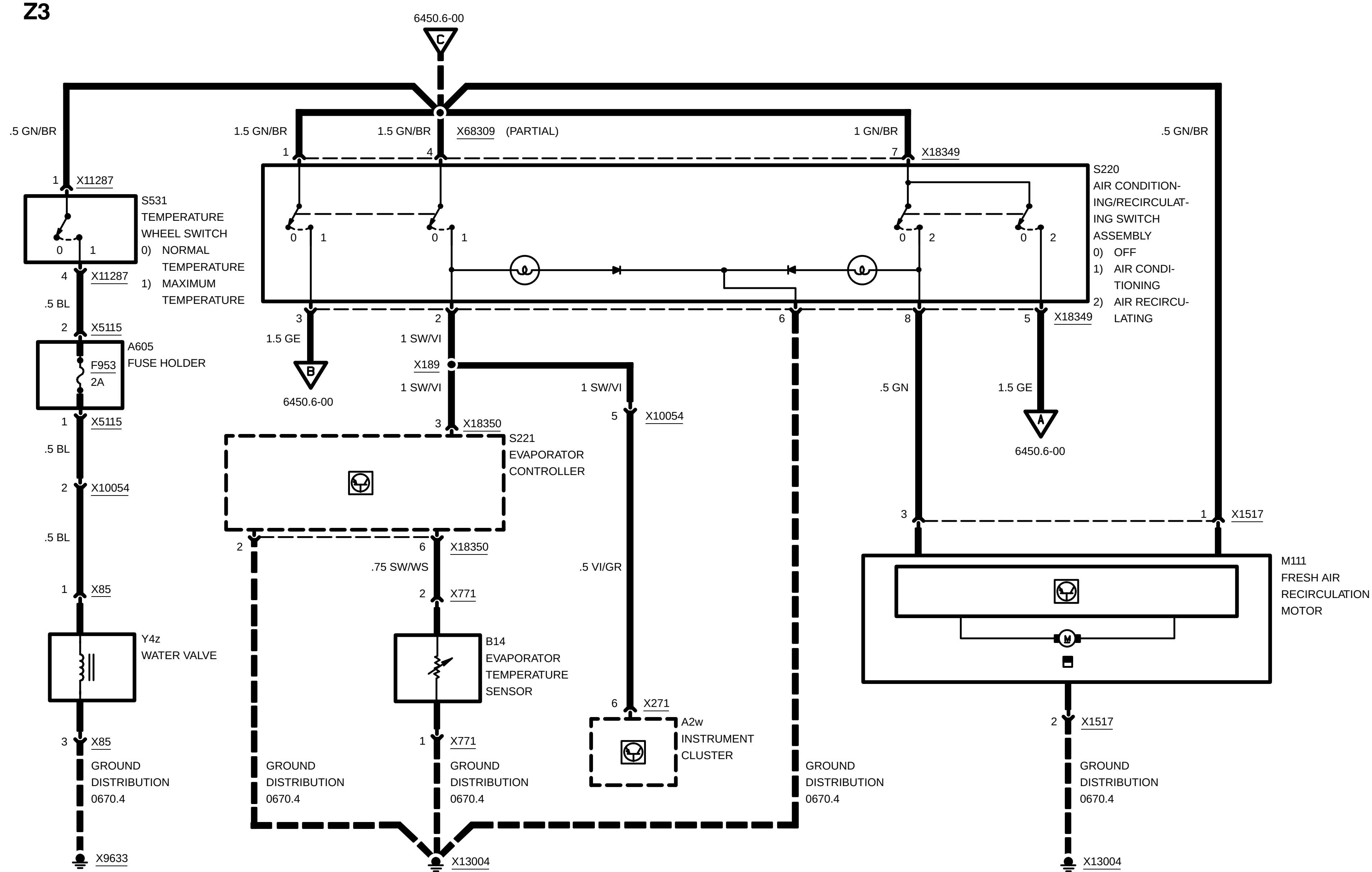
E = Input, A = Output, M = Ground

INTEGRATED HEATING– AND CLIMATE CONTROL

Z3 VERSIONS

POWER, AIR FLOW CONTROL

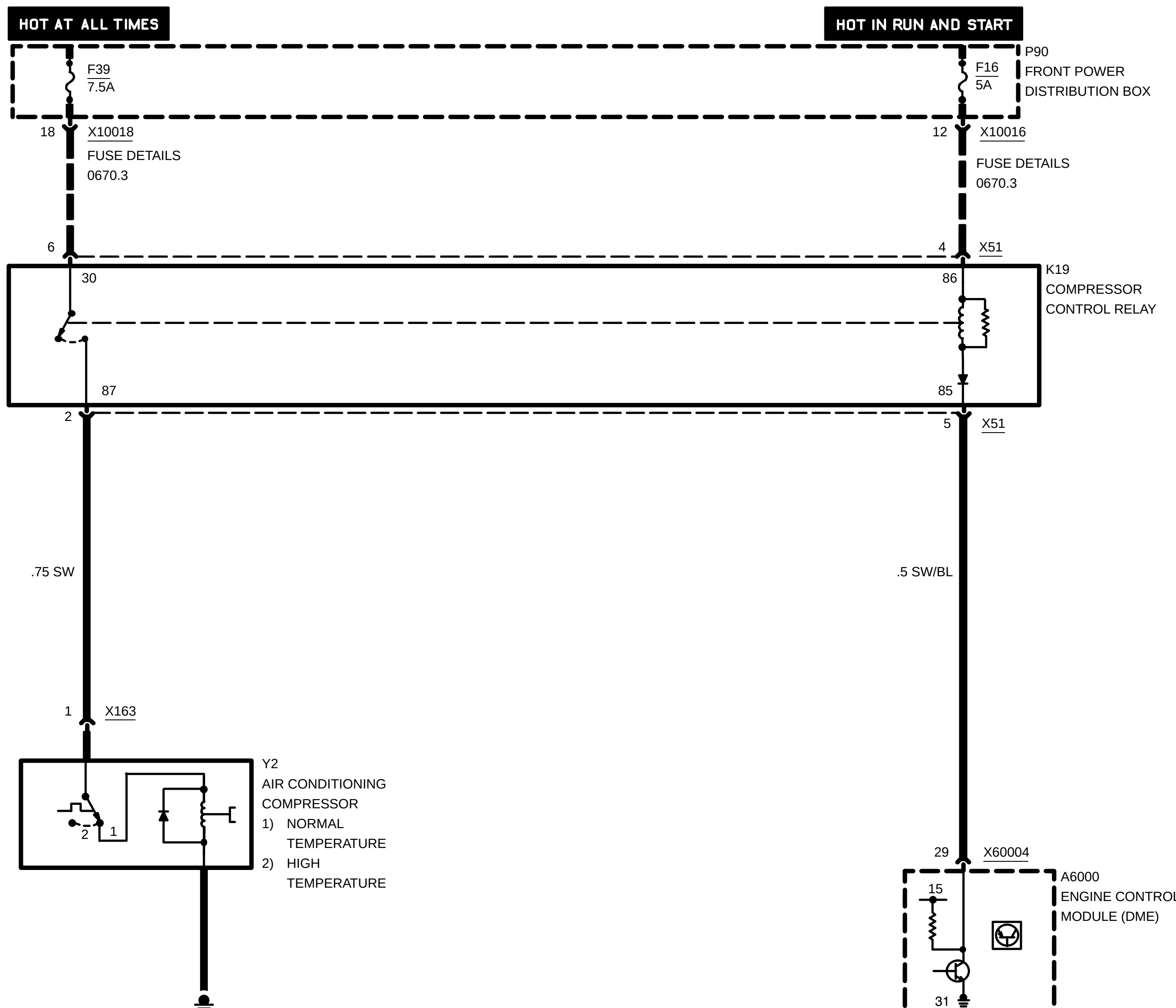



6450.6-00
C
.5 GN/BR
1.5 GN/BR
1.5 GN/BR
X68309 (PARTIAL)
1 GN/BR
.5 GN/BR
X11287
S531
TEMPERATURE
WHEEL SWITCH
0) NORMAL TEMPERATURE
1) MAXIMUM TEMPERATURE
X18349
S220
AIR CONDITION-ING/RECIRCULAT-ING SWITCH ASSEMBLY
0) OFF
1) AIR CONDI-TIONING
2) AIR RECIRCU-LATING
.5 BL
X5115
A605
FUSE HOLDER
F953
2A
1.5 GE
1 SW/VI
X189
6450.6-00
B
.5 GN
1.5 GE
A
X10054
X18350
S221
EVAPORATOR
CONTROLLER
X1517
X18350
.75 SW/WS
.5 VI/GR
X85
X771
Y4z
WATER VALVE
B14
EVAPORATOR
TEMPERATURE
SENSOR
M111
FRESH AIR
RECIRCULATION
MOTOR
X271
A2w
INSTRUMENT
CLUSTER
GROUND DISTRIBUTION 0670.4
X9633
X13004

INTEGRATED HEATING– AND CLIMATE CONTROL

Z3 VERSIONS

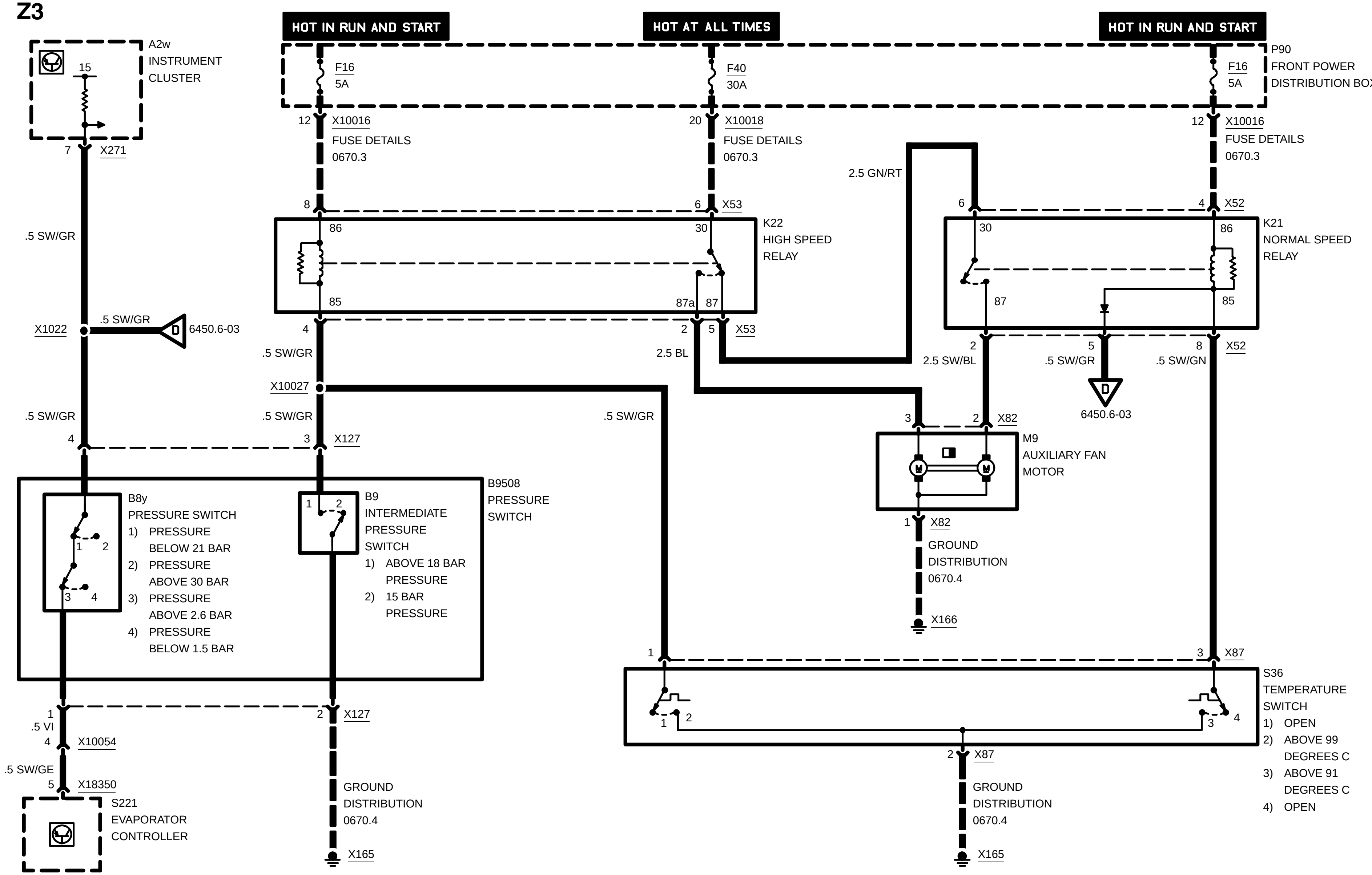
COMPRESSOR CONTROLS



INTEGRATED HEATING– AND CLIMATE CONTROL

AUXILIARY FAN

Z3 VERSIONS

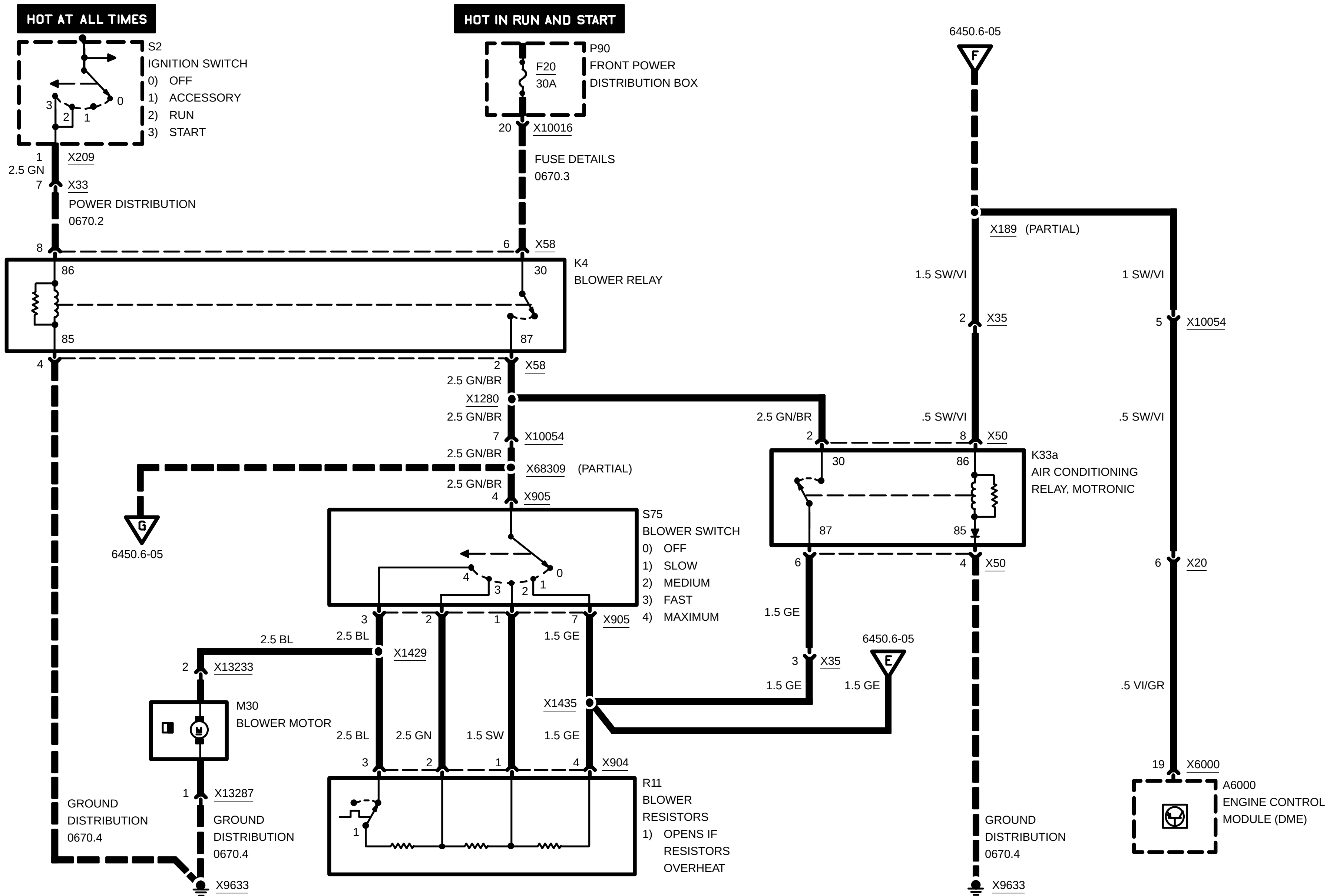


BMW 3 Z3

INTEGRATED HEATING– AND CLIMATE CONTROL

M VERSIONS

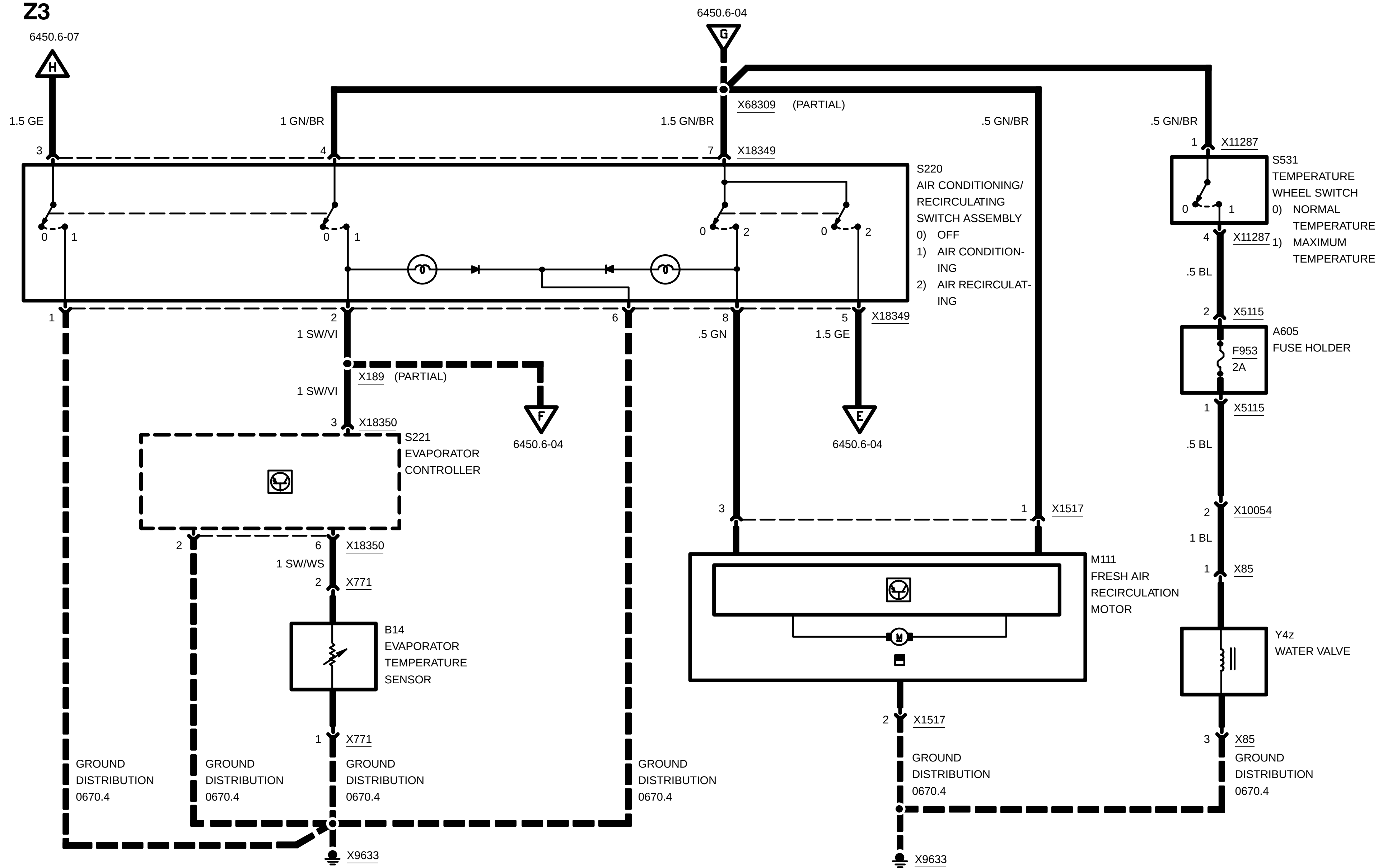
POWER, AIR FLOW CONTROL



03/00

6450.6-04

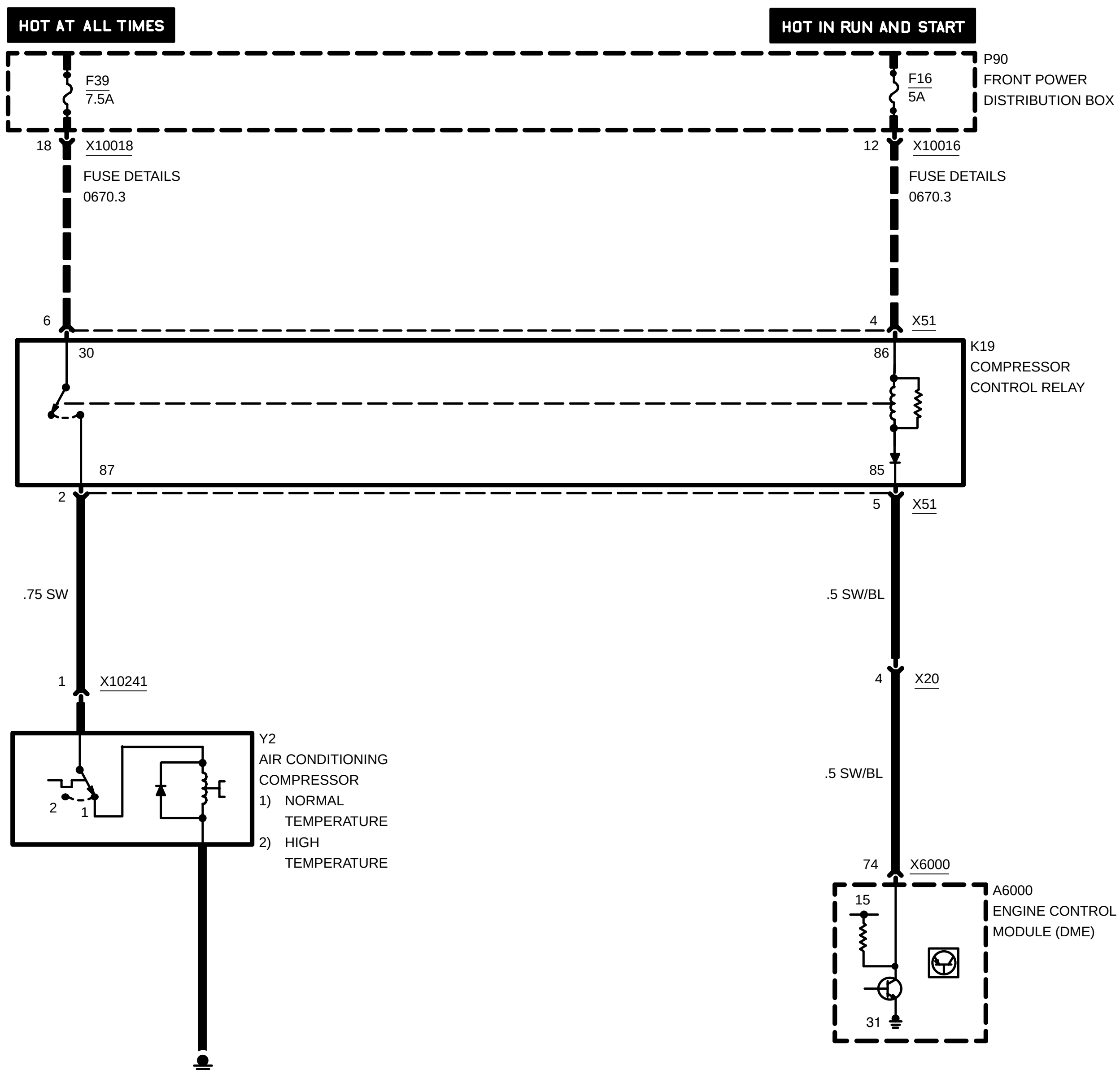
1999


6450.6-07
H
6450.6-04
G
1.5 GE
1 GN/BR
1.5 GN/BR
X68309 (PARTIAL)
.5 GN/BR
.5 GN/BR
X18349
X11287
S531
TEMPERATURE
WHEEL SWITCH
0) NORMAL TEMPERATURE
1) MAXIMUM TEMPERATURE
S220
AIR CONDITIONING/
RECIRCULATING
SWITCH ASSEMBLY
0) OFF
1) AIR CONDITION-ING
2) AIR RECIRCULAT-ING
X11287
.5 BL
X5115
A605
FUSE HOLDER
F953
2A
X5115
.5 BL
1 SW/VI
.5 GN
1.5 GE
X18349
X189 (PARTIAL)
1 SW/VI
X18350
S221
EVAPORATOR
CONTROLLER
F
6450.6-04
E
6450.6-04
X1517
X10054
1 BL
X85
X18350
1 SW/WS
X771
M111
FRESH AIR
RECIRCULATION
MOTOR
B14
EVAPORATOR
TEMPERATURE
SENSOR
Y4z
WATER VALVE
X1517
X771
X85
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X9633
X9633

INTEGRATED HEATING– AND CLIMATE CONTROL

M VERSIONS

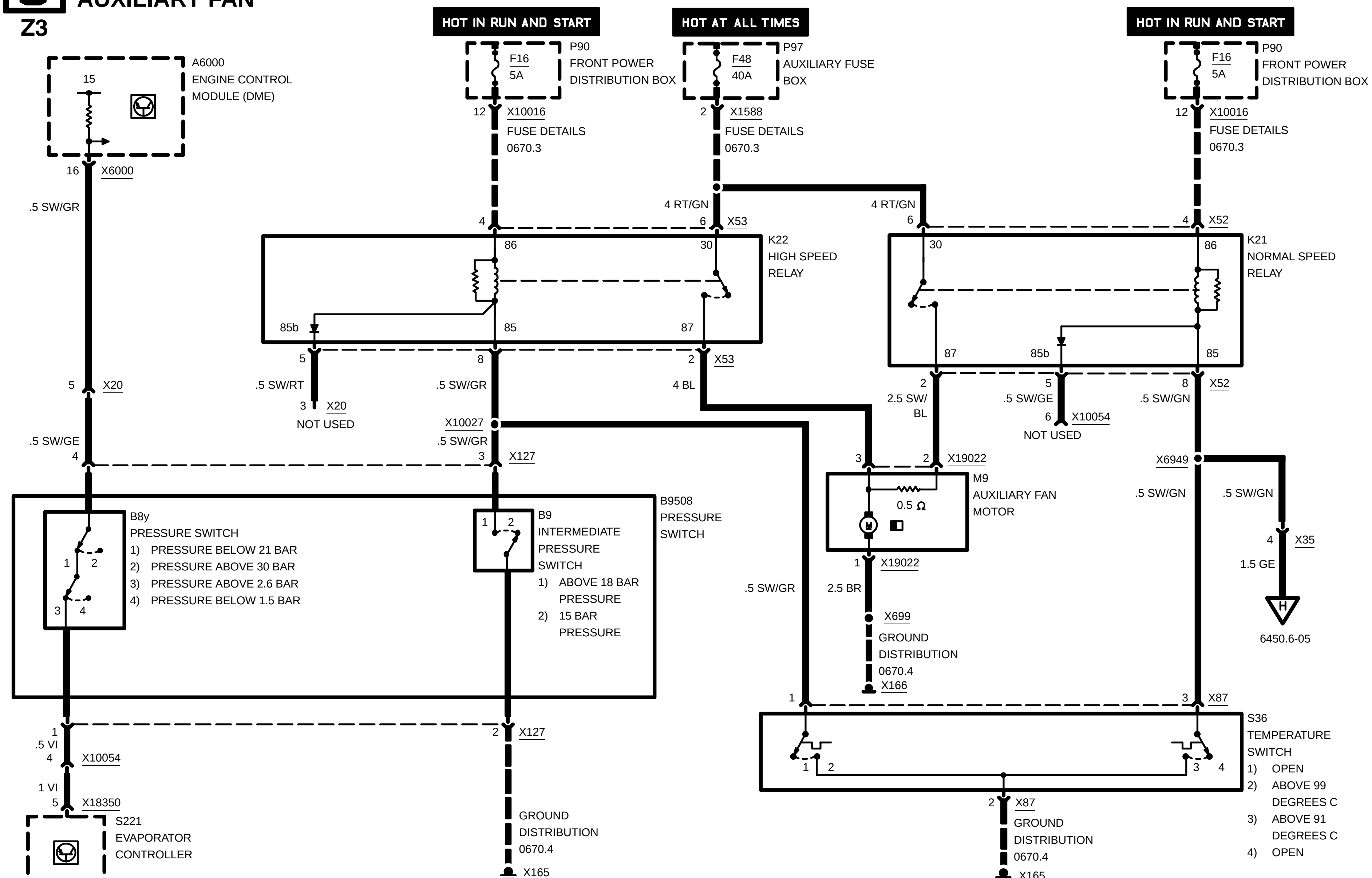
COMPRESSOR CONTROL AND WATER SUPPLY



INTEGRATED HEATING– AND CLIMATE CONTROL

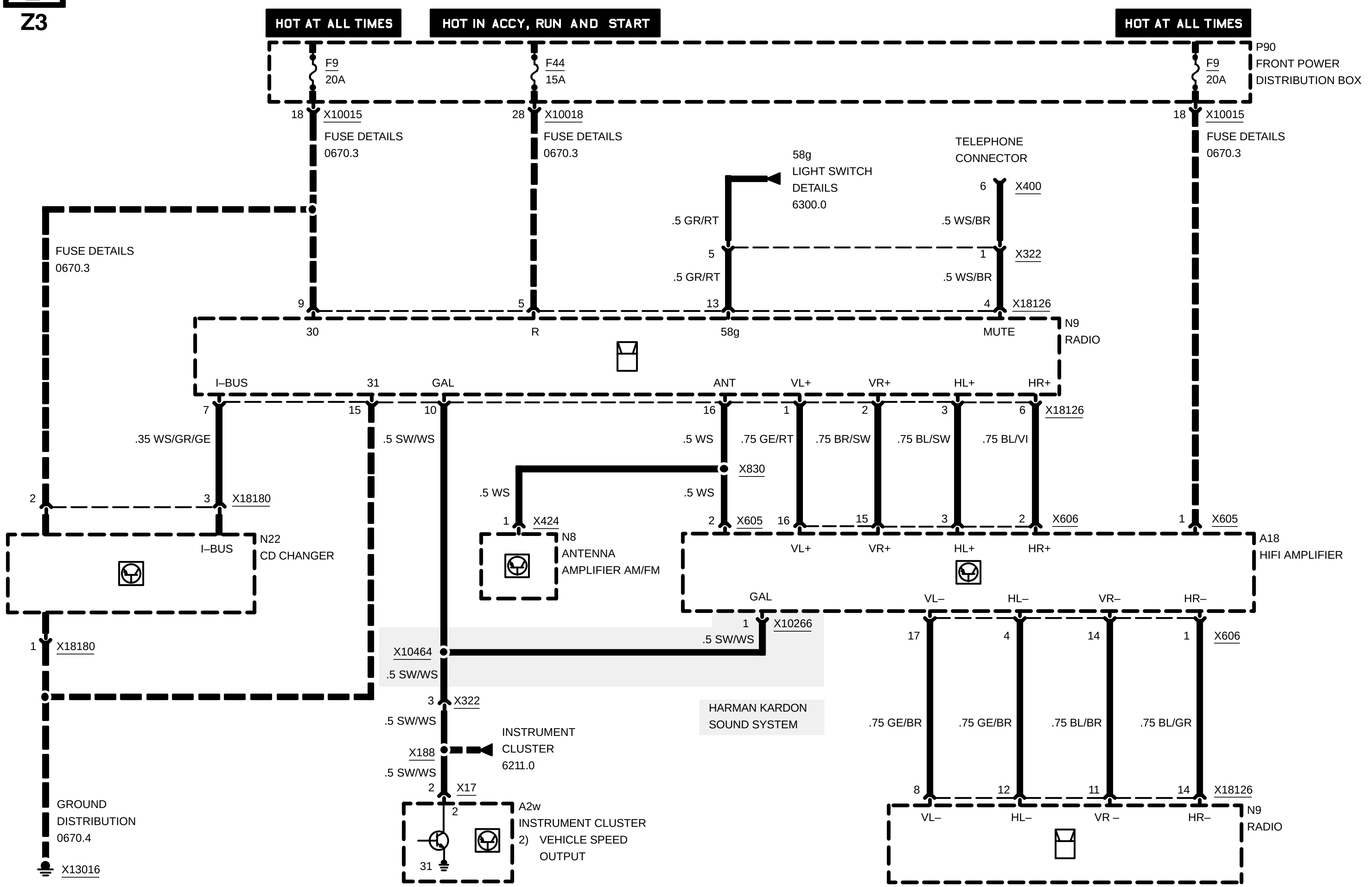
M VERSIONS

AUXILIARY FAN



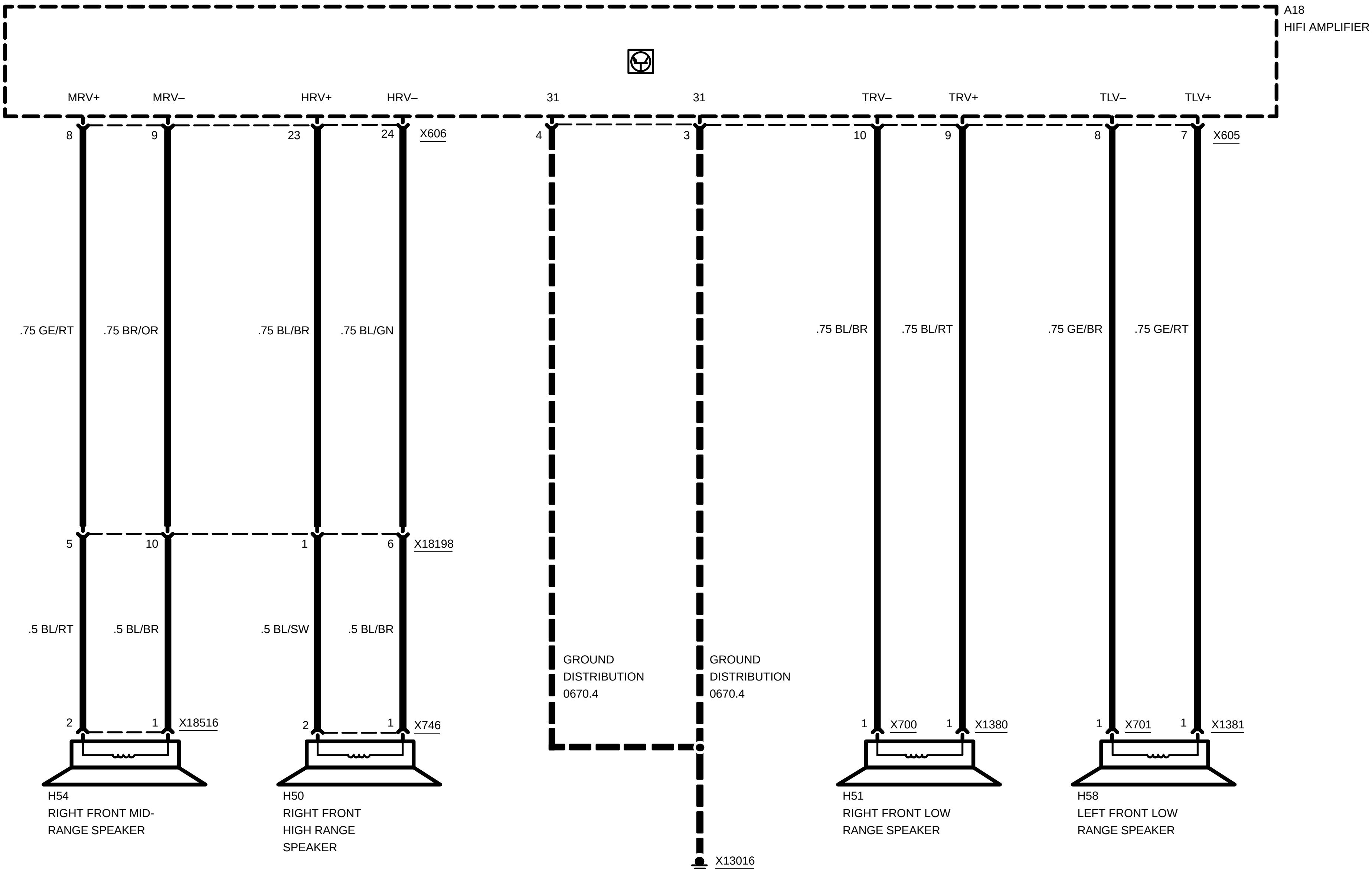
BMW 3 Z3

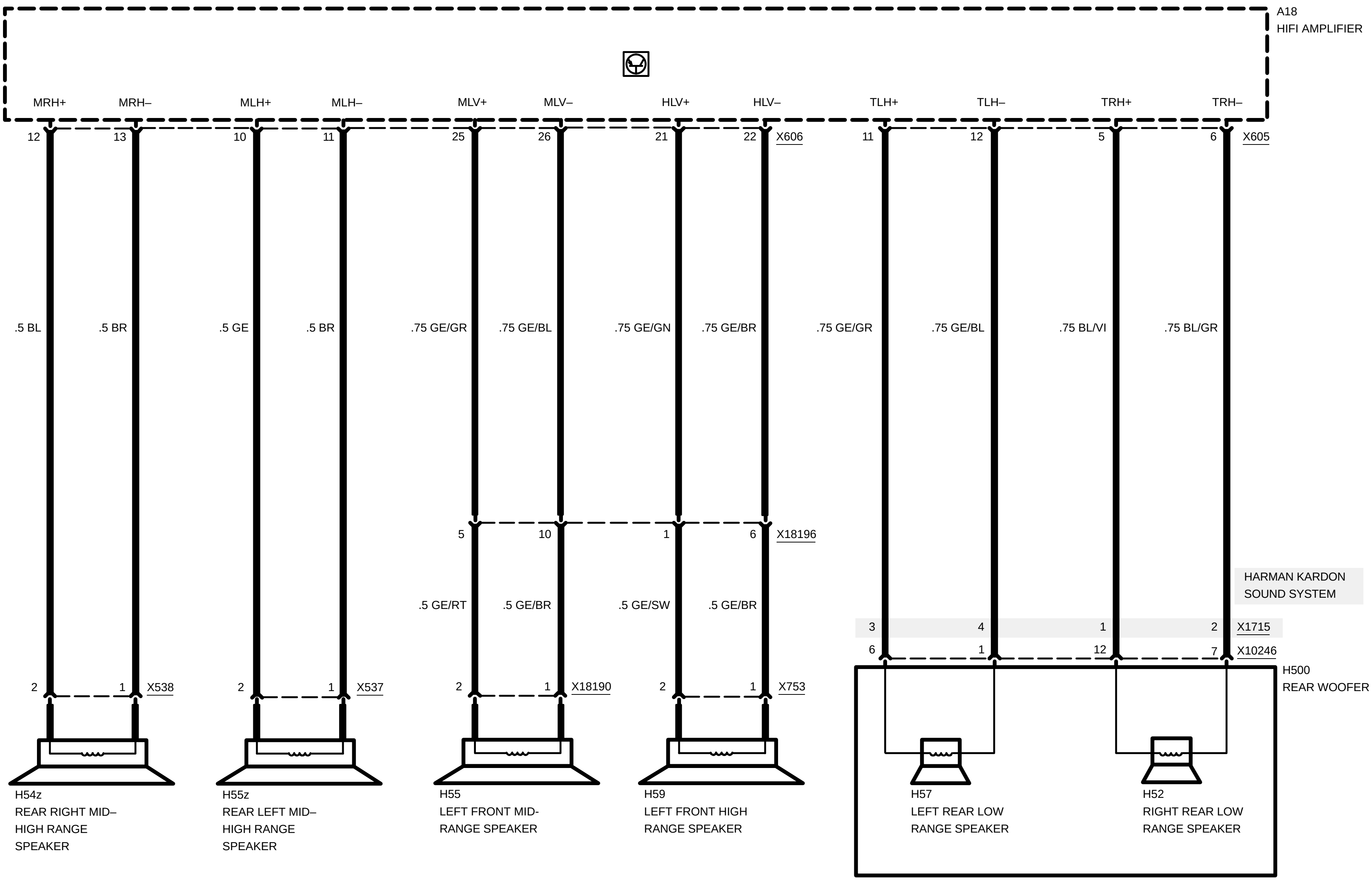
6510.1 RADIO/HIFI



RADIO/HIFI

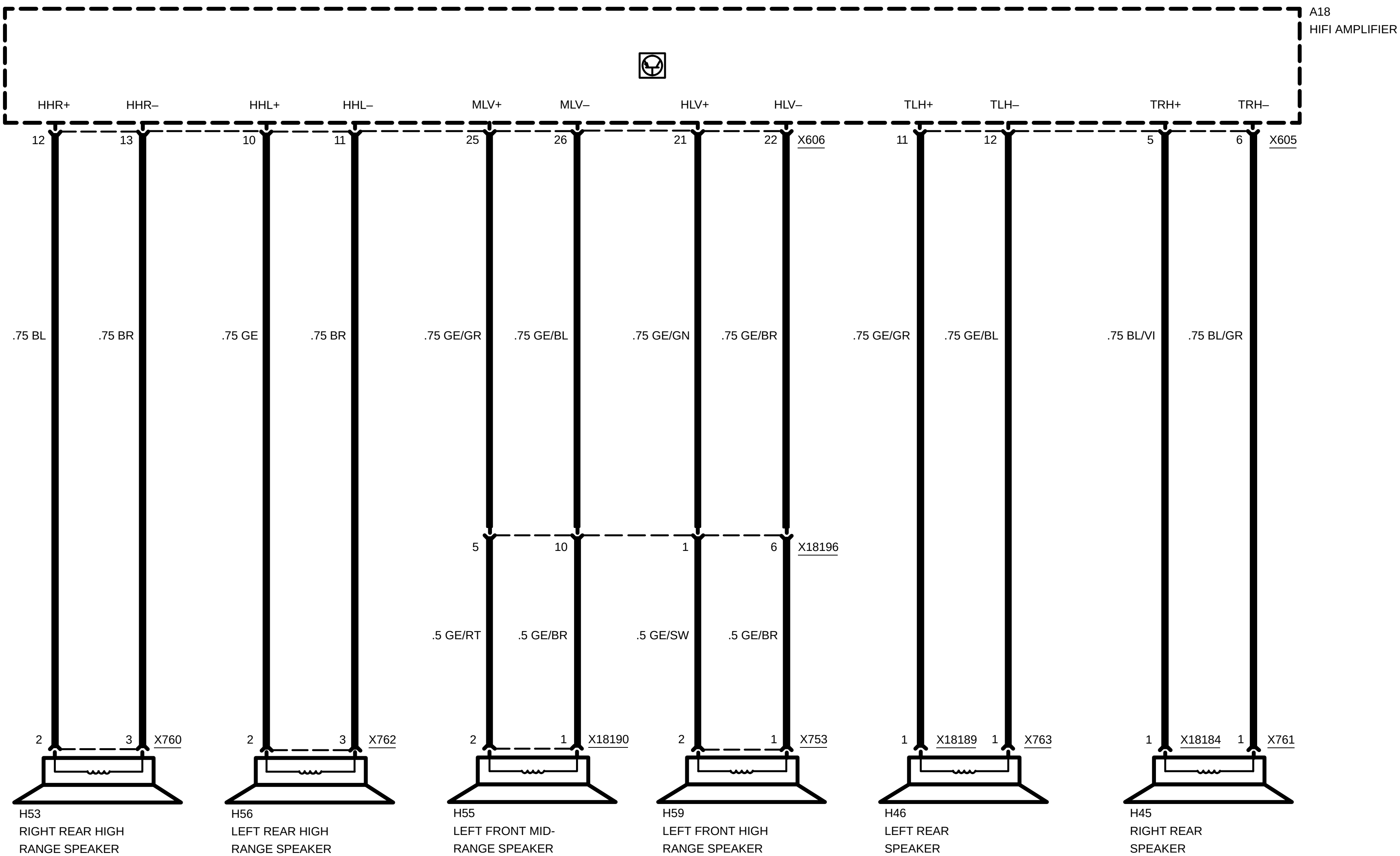
BMW 3
Z3



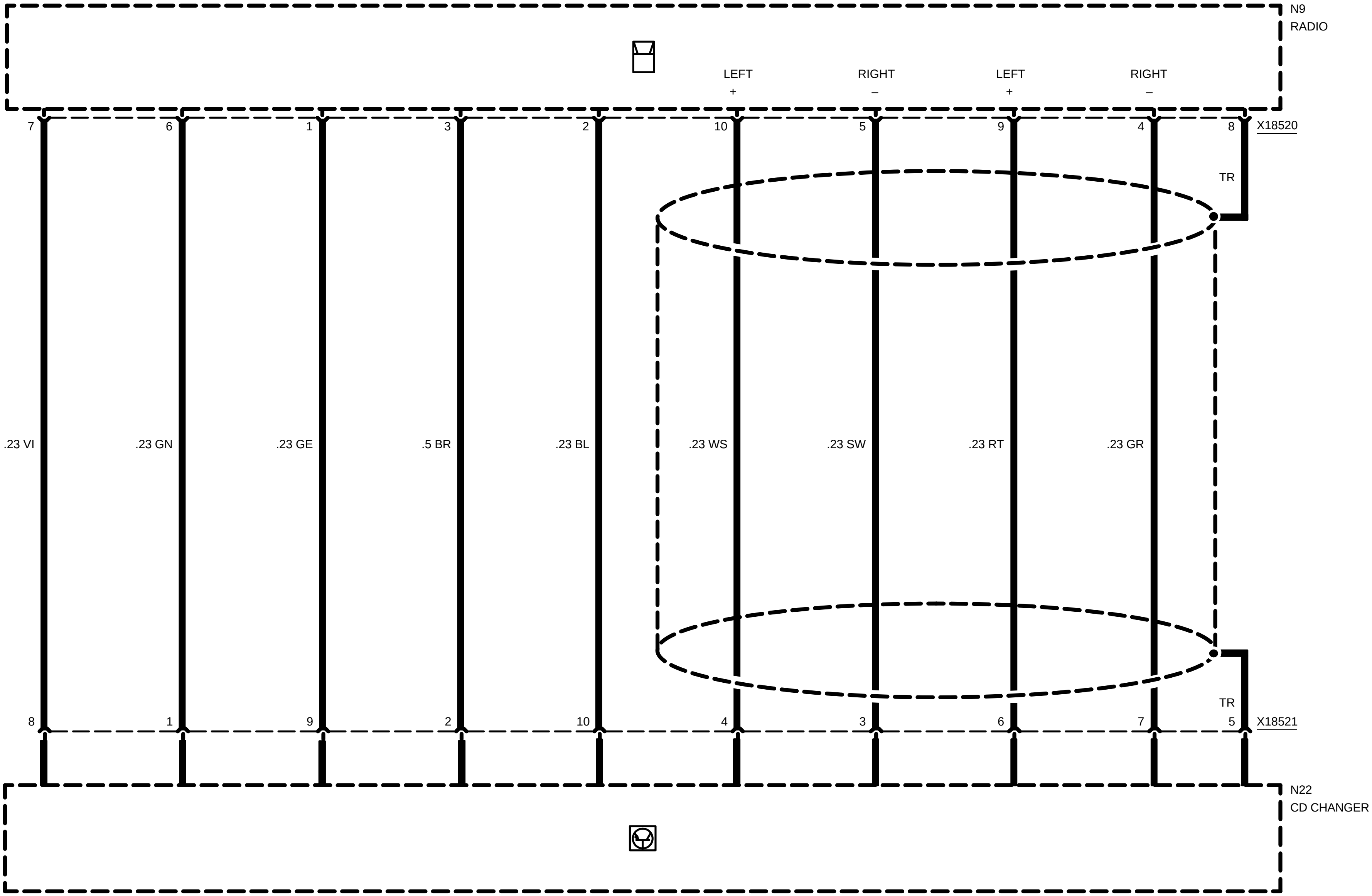

A18
HIFI AMPLIFIER
MRH+
MRH–
MLH+
MLH–
MLV+
MLV–
HLV+
HLV–
TLH+
TLH–
TRH+
TRH–
12
13
10
11
25
26
21
22
X606
11
12
5
6
X605
.5 BL
.5 BR
.5 GE
.5 BR
.75 GE/GR
.75 GE/BL
.75 GE/GN
.75 GE/BR
.75 GE/GR
.75 GE/BL
.75 BL/VI
.75 BL/GR
5
10
1
6
X18196
.5 GE/RT
.5 GE/BR
.5 GE/SW
.5 GE/BR
HARMAN KARDON
SOUND SYSTEM
3
4
1
2
X1715
6
1
12
7
X10246
H500
REAR WOOFER
2
1
X538
2
1
X537
2
1
X18190
2
1
X753
H54z
REAR RIGHT MID–
HIGH RANGE
SPEAKER
H55z
REAR LEFT MID–
HIGH RANGE
SPEAKER
H55
LEFT FRONT MID-
RANGE SPEAKER
H59
LEFT FRONT HIGH
RANGE SPEAKER
H57
LEFT REAR LOW
RANGE SPEAKER
H52
RIGHT REAR LOW
RANGE SPEAKER

RADIO/HIFI

COUPE WITH HIFI

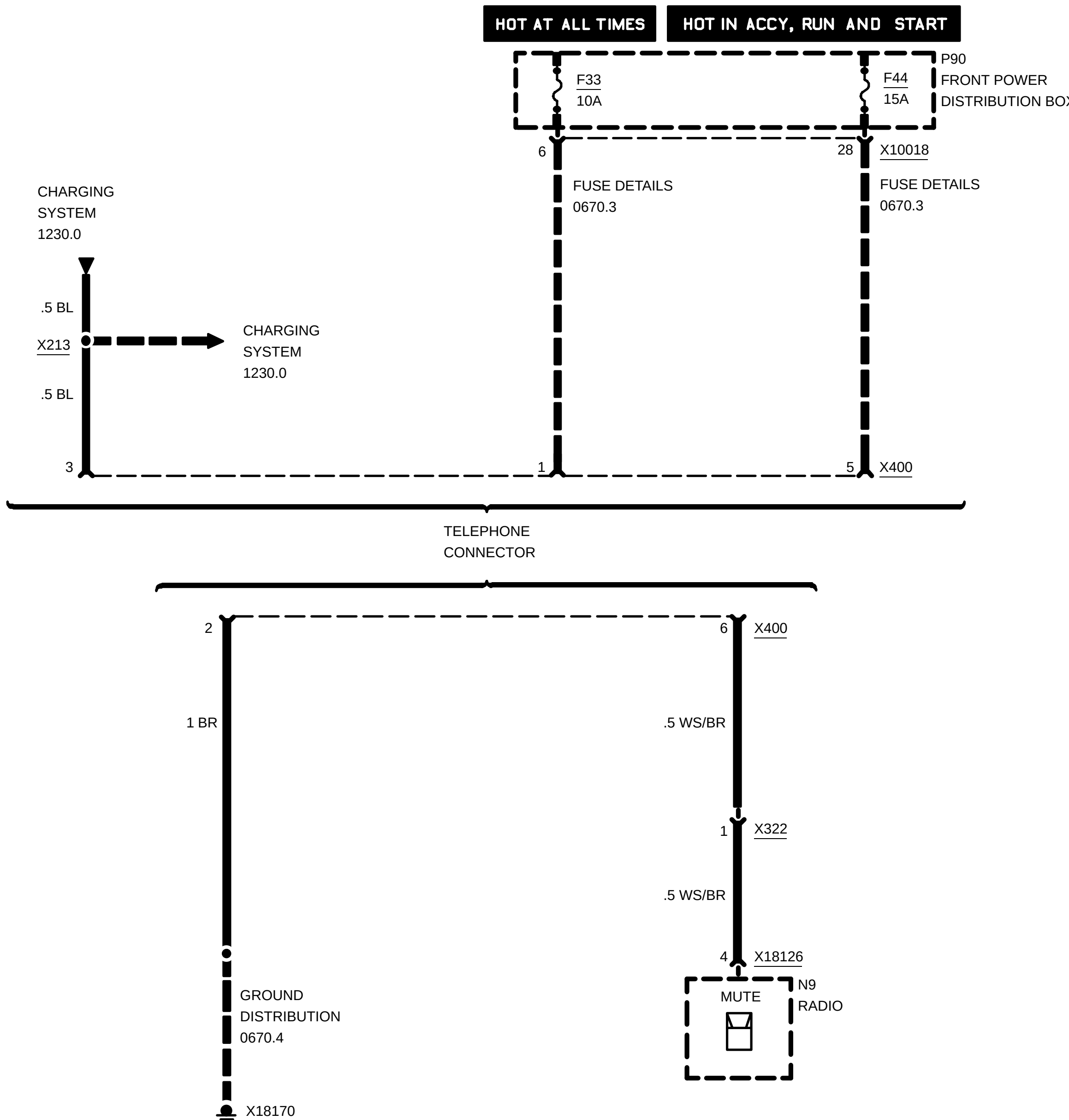


RADIO/HIFI


N9
RADIO
LEFT +
RIGHT –
LEFT +
RIGHT –
7 6 1 3 2 10 5 9 4 8
X18520
TR
.23 VI
.23 GN
.23 GE
.5 BR
.23 BL
.23 WS
.23 SW
.23 RT
.23 GR
TR
8 1 9 2 10 4 3 6 7 5
X18521
N22
CD CHANGER

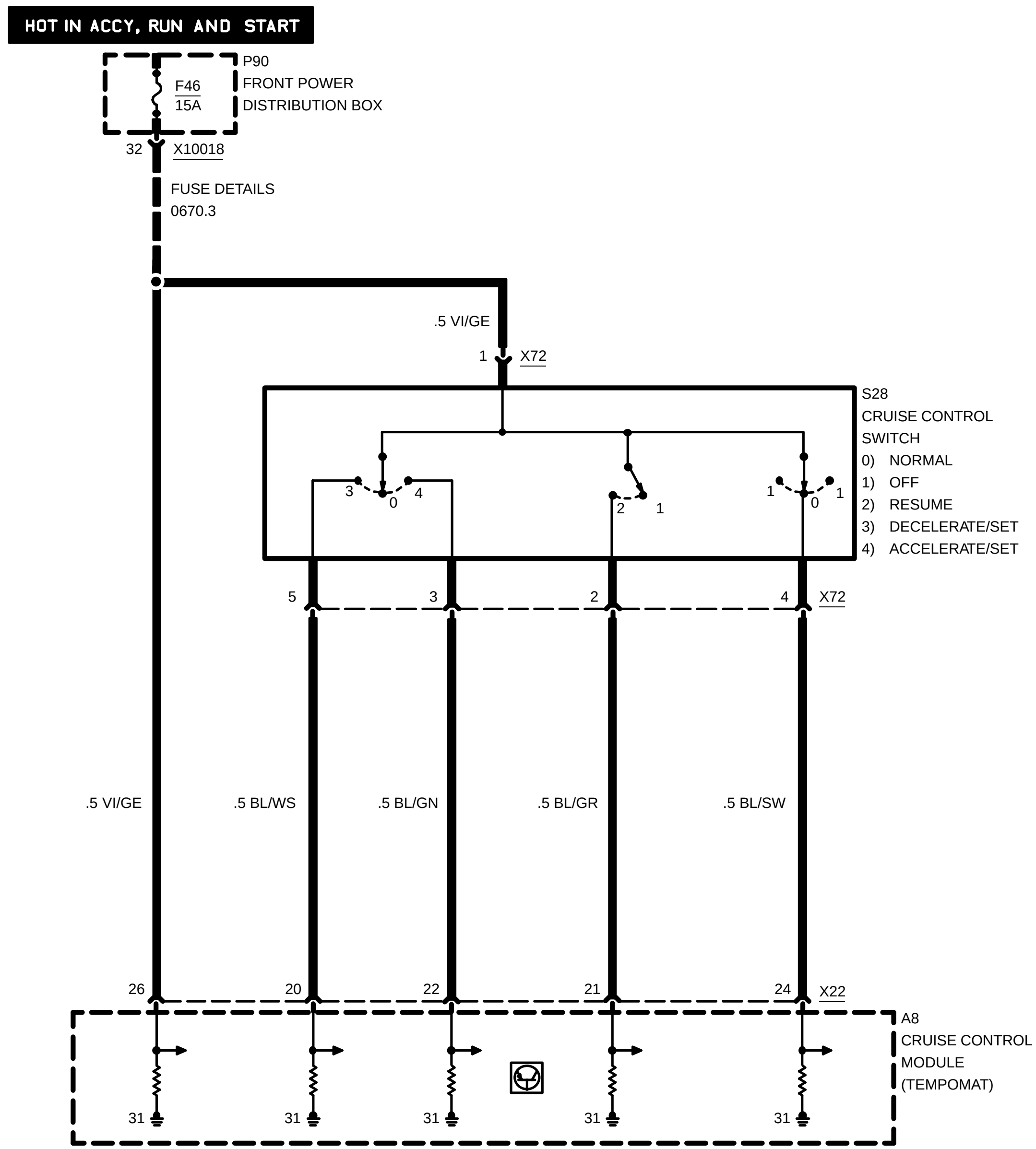
6561.0 CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS



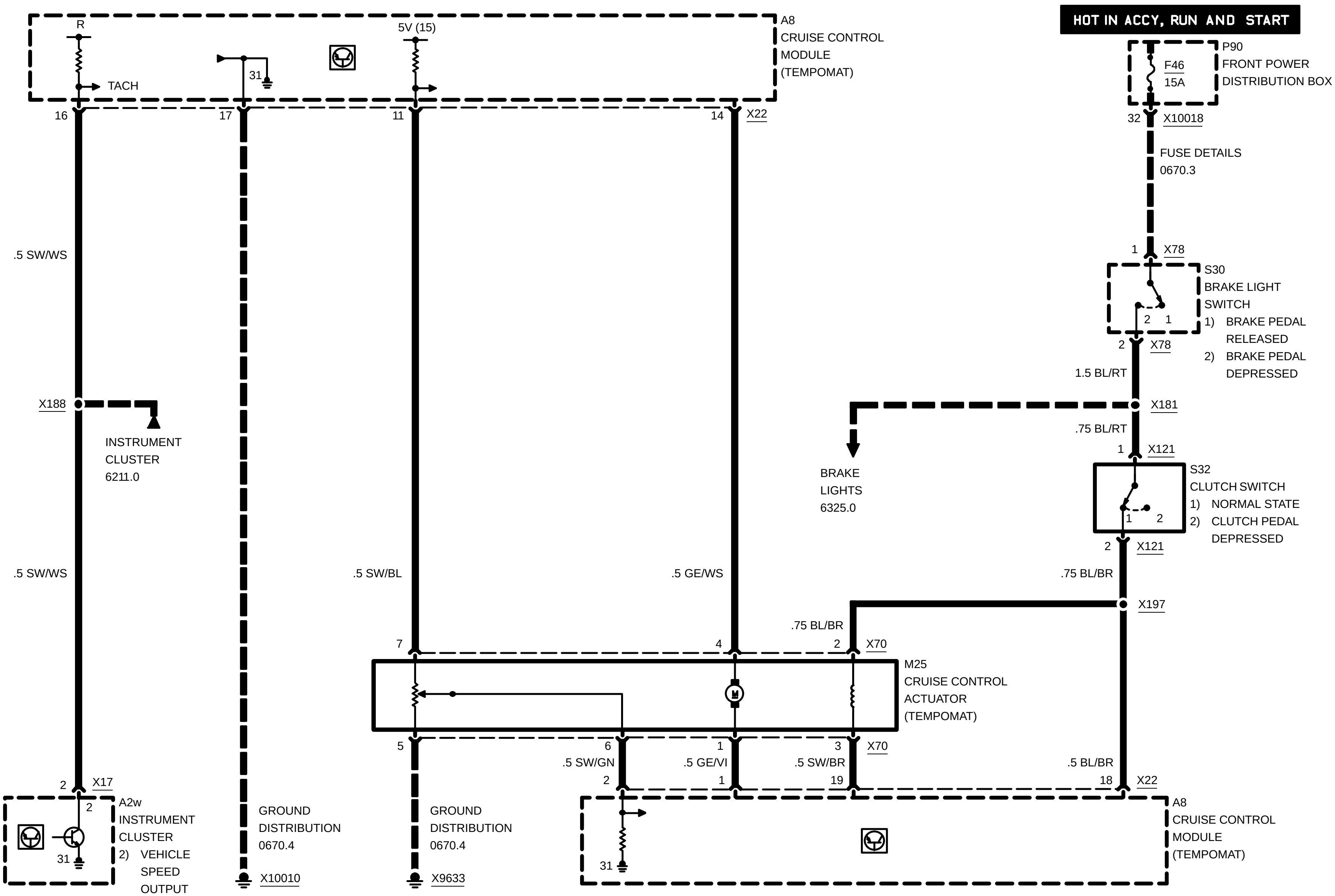
6571.0 CRUISE CONTROL (TEMPOMAT)

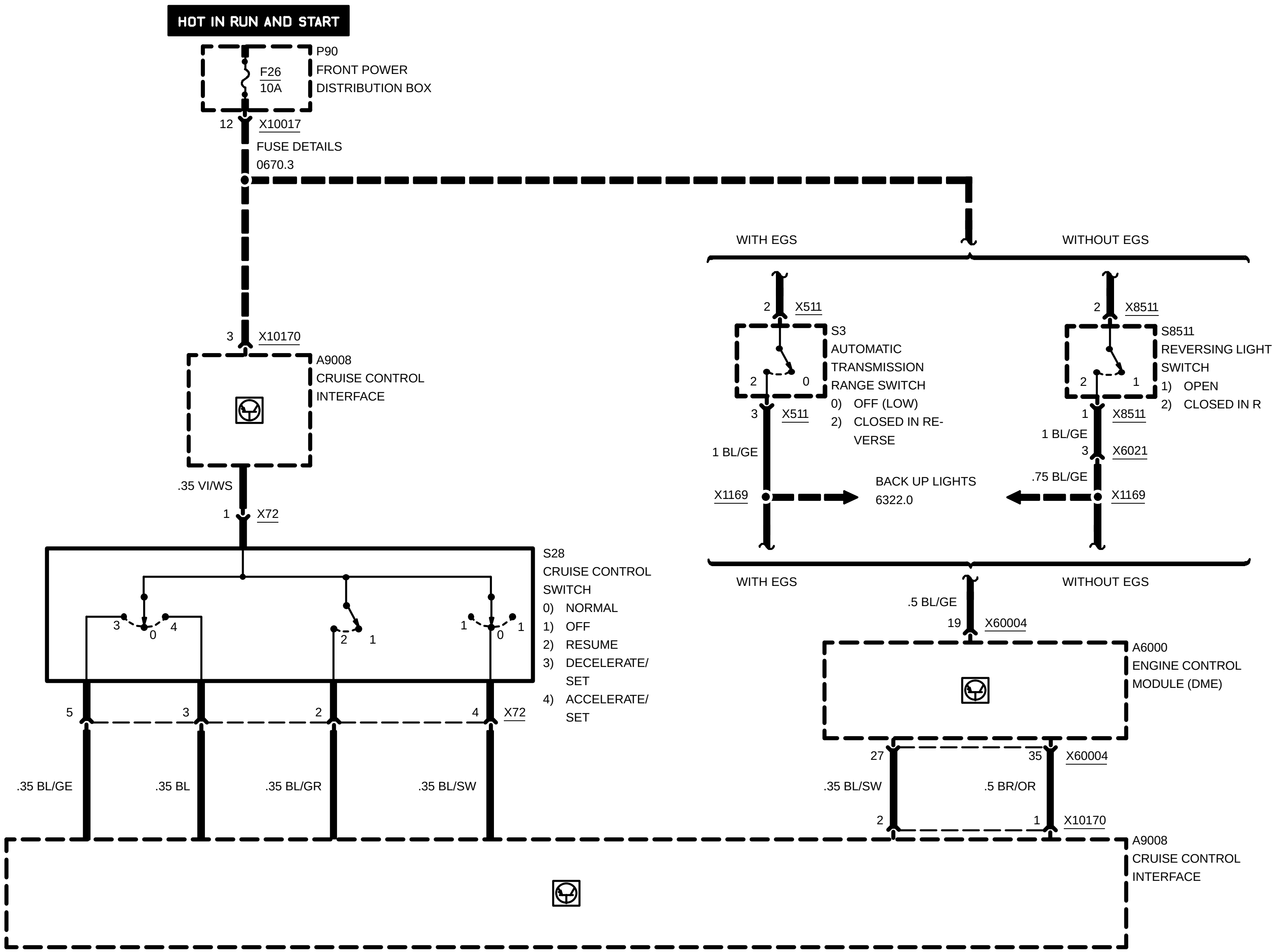
M VERSIONS



CRUISE CONTROL (TEMPOMAT)

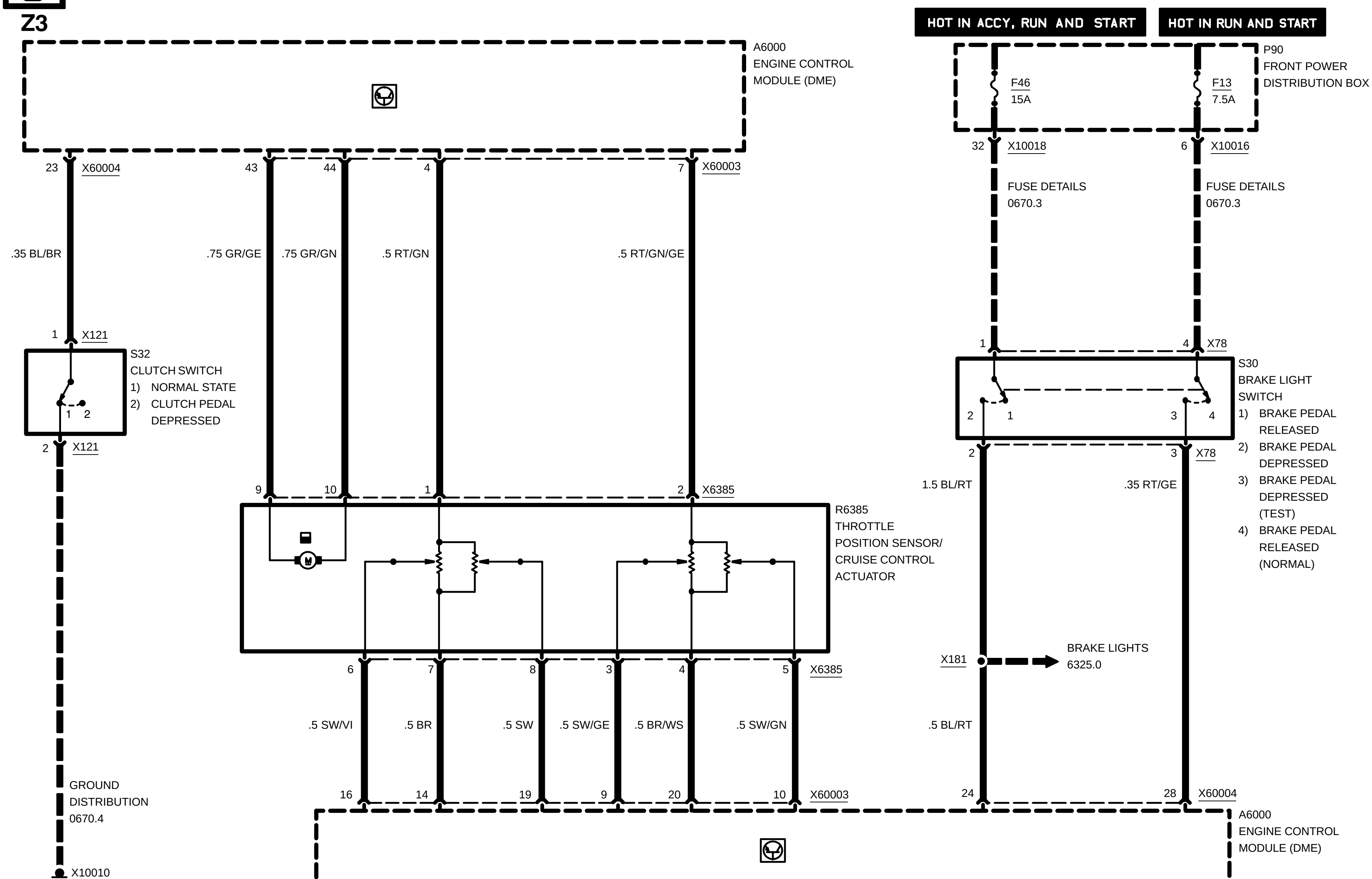
M VERSIONS



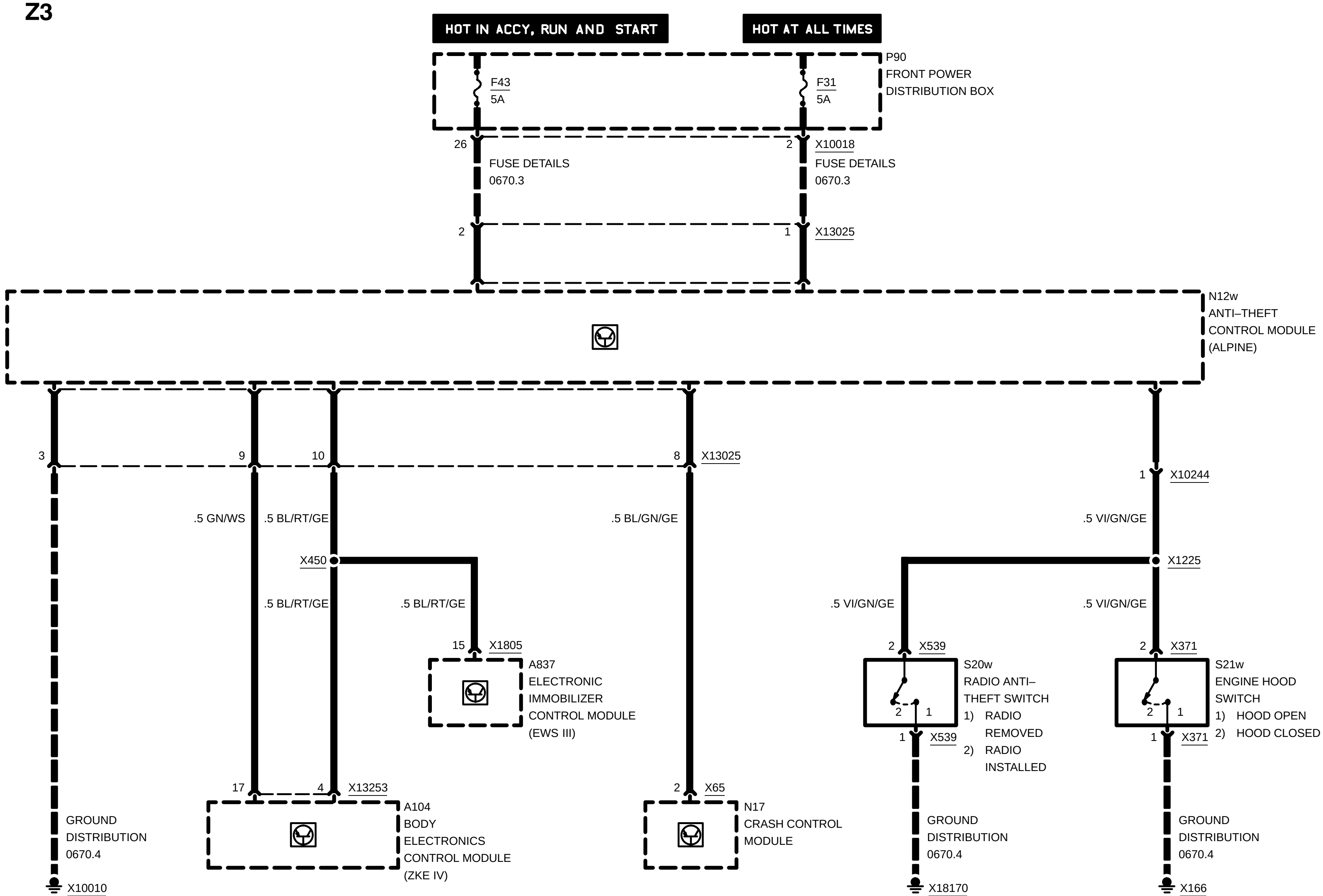

HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F26
10A
12 X10017
FUSE DETAILS
0670.3
WITH EGS
WITHOUT EGS
2 X511
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
0) OFF (LOW)
2) CLOSED IN RE-
VERSE
2 X8511
S8511
REVERSING LIGHT
SWITCH
1) OPEN
2) CLOSED IN R
3 X511
1 BL/GE
X1169
BACK UP LIGHTS
6322.0
1 X8511
1 BL/GE
3 X6021
.75 BL/GE
X1169
3 X10170
A9008
CRUISE CONTROL
INTERFACE
.35 VI/WS
1 X72
S28
CRUISE CONTROL
SWITCH
0) NORMAL
1) OFF
2) RESUME
3) DECELERATE/
SET
4) ACCELERATE/
SET
5 3 2 4 X72
.35 BL/GE
.35 BL
.35 BL/GR
.35 BL/SW
.5 BL/GE
19 X60004
A6000
ENGINE CONTROL
MODULE (DME)
27 35 X60004
.35 BL/SW
.5 BR/OR
2 1 X10170
A9008
CRUISE CONTROL
INTERFACE

CRUISE CONTROL (TEMPOMAT)

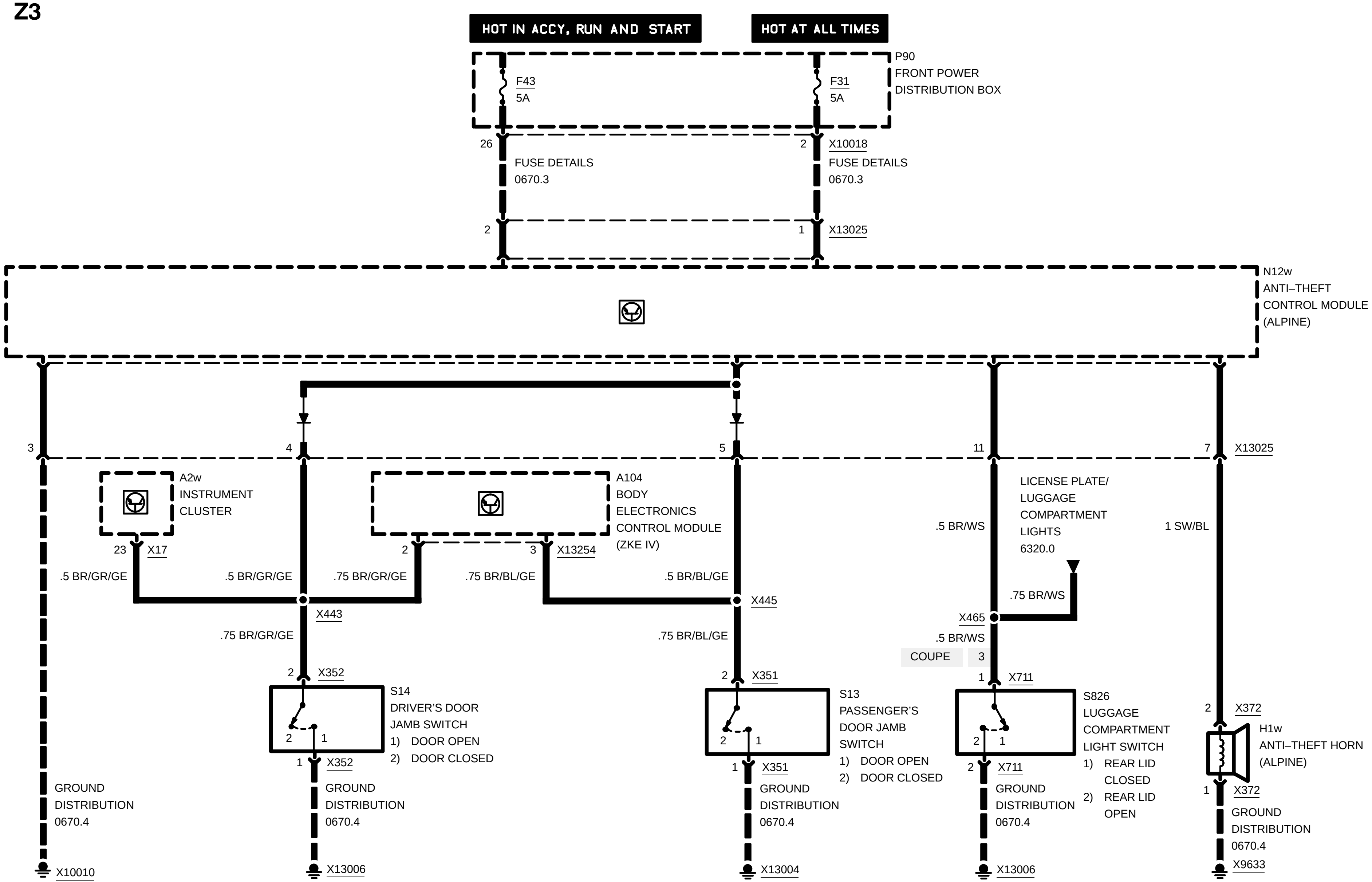
Z3 VERSIONS



6575.2 ANTI–THEFT SYSTEM (ALPINE)

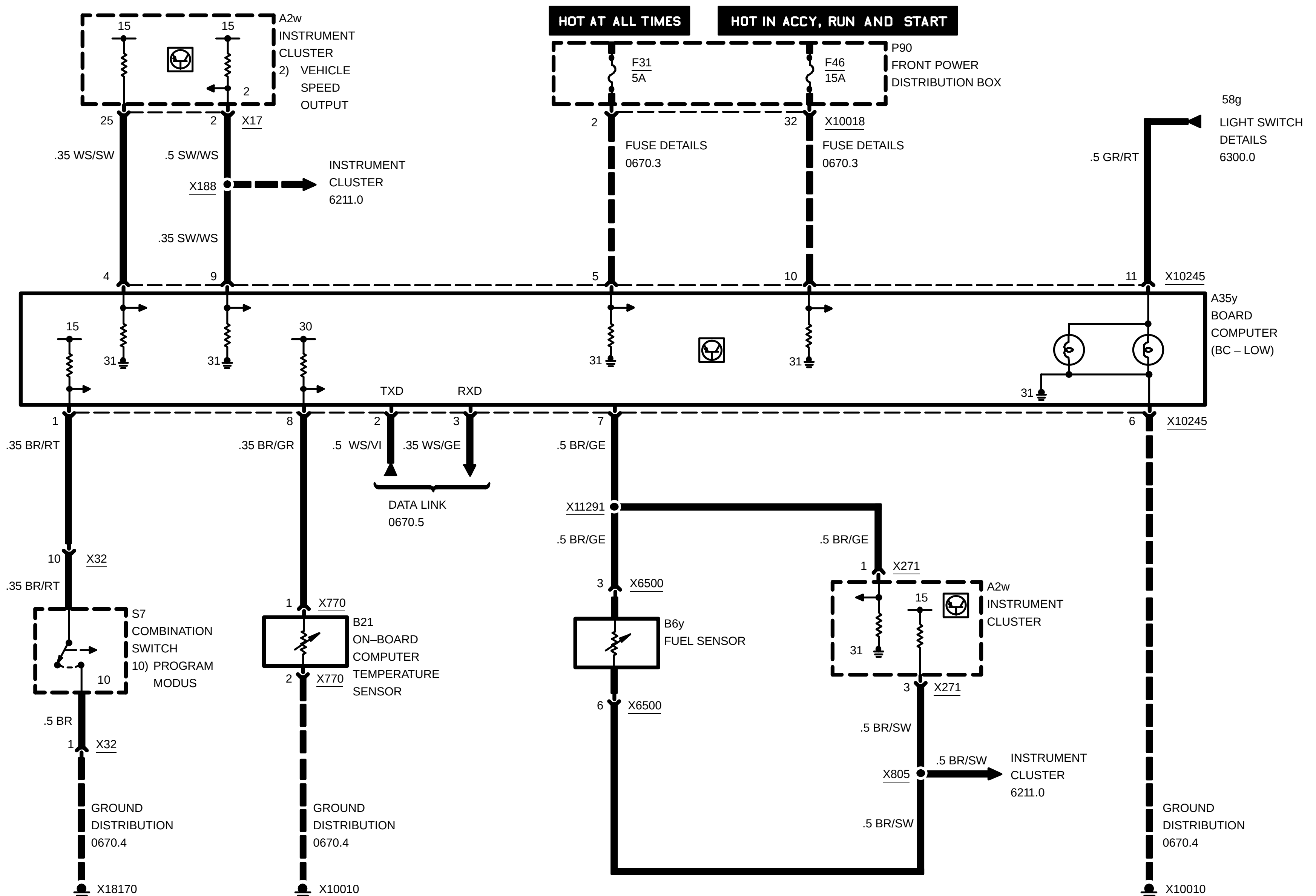


ANTI–THEFT SYSTEM (ALPINE)



BMW 3 Z3

6581.3 BOARD COMPUTER (BC – LOW)



7000.0 COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	20-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	behind glove box	00-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below center console	22-2	
A18	HIFI AMPLIFIER	in RH side of luggage compartment (ROADSTER)	27-3	
A18	HIFI AMPLIFIER	in RH side of luggage compartment (COUPE)	46-1	
A35y	BOARD COMPUTER (BC – LOW)	center console	00-3	
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	in lift gate	37-2	
A51	WIPER/WASHER MODULE	behind glove box	38-2	
A52	SLIP CONTROL MODULE (ABS/ASC)	front LH side of engine compartment (Z3 VERSIONS)	39-3	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (M VERSIONS)	00-2	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box	38-2	
A110	DIGITAL CLOCK	center console		
A113	SEAT OCCUPANCY DETECTOR	under RH front seat	24-1	
A113	SEAT OCCUPANCY DETECTOR	under RH front seat (WITH SPORT SEAT)	11-2	
A605	FUSE HOLDER	center console (radio and console removed)	36-1	
A837	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)	LH side of steering column	38-3	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment in E–Box (M VERSIONS)	00-1	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment in E–Box (Z3 VERSIONS)	40-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment in E–Box	42-3	
A9008	CRUISE CONTROL INTERFACE	near steering column	38-3	
A19007	THERMAL OIL LEVEL SENSOR (TOENS) CONTROL MODULE	behind glove box	38-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper		
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	12-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6y	FUEL SENSOR	in fuel tank		
B8y	PRESSURE SWITCH	front RH side of engine compartment		
B9	INTERMEDIATE PRESSURE SWITCH	front RH side of engine compartment		
B10	VEHICLE SPEED SENSOR	on differential	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell	21-2	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	12-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment	09-1	
B21	ON–BOARD COMPUTER TEMPERATURE SENSOR	in RH front bumper	11-3	
B59	OIL TEMPERATURE GAUGE	center console		
B65	FUEL TANK PRESSURE SENSOR	under rear storage compartment	07-2	
B78	DRIVER'S SIDE IMPACT SENSOR	under LH front seat	35-3	
B79	PASSENGER'S SIDE IMPACT SENSOR	under RH front seat	35-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B211	VOLTMETER	center console		
B6203	CRANKSHAFT POSITION/RPM SENSOR	rear LH side of engine compartment (M VERSIONS)	32-3	
B6203	CRANKSHAFT POSITION/RPM SENSOR	rear LH side of engine compartment (Z3 VERSIONS)	41-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine	31-3	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (M VERSIONS)	34-1	
B6205	INTAKE AIR TEMPERATURE SENSOR	top center of engine (Z3 VERSIONS)	42-2	
B6207	HOT FILM AIR MASS METER	LH side of engine compartment (M VERSIONS)	33-3	
B6207	HOT FILM AIR MASS METER	LH side of engine compartment (Z3 VERSIONS)		
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine		
B6214	CAMSHAFT POSITION SENSOR 1 (INLET)	front of engine		
B6224	CAMSHAFT POSITION SENSOR 2 (OUTLET)	front of engine	47-2	
B6231	OIL PRESSURE SWITCH	lower LH side of engine (M VERSIONS)	32-2	
B6231	OIL PRESSURE SWITCH	LH side of engine compartment (Z3 VERSIONS)	44-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	front of engine		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	front of engine	40-1	
B6238	OIL TEMPERATURE SENSOR	RH side of oil filter (M VERSIONS)	32-2	
B6238	OIL TEMPERATURE SENSOR	RH side of oil filter (Z3 VERSIONS)	44-1	
B6240	KNOCK SENSOR	LH side of engine (Z3 VERSIONS)	42-1	
B6240	KNOCK SENSOR	top front of engine (M VERSIONS)	33-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6247	CHARCOAL FILTER SHUT–OFF VALVE	under LH rear of car	12-1	
B6254	THERMAL OIL LEVEL SWITCH	lower LH side of engine compartment	47-1	
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	rear of engine compartment	32-1	
B6279	THERMOSTAT, CHARACTERISTIC MAP COOLING	front of engine	39-1	
B9508	PRESSURE SWITCH	front RH side of engine compartment	30-2	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	43-3	
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	43-3	
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101	CONTACT RING	top of steering column	36-3	
D100	DATA LINK CONNECTOR	rear RH side of engine compartment (M VERSIONS)	31-1	
D100	DATA LINK CONNECTOR	rear LH side of engine compartment (Z3 VERSIONS)	39-3	
D110	OBD II CONNECTOR	center console right	28-3	
E7	LEFT HEADLIGHT	front LH side of engine compartment		
E8	RIGHT HEADLIGHT	front RH side of engine compartment		
E9	REAR DEFOGGER I	hard top		
E11	LEFT HIGH BEAM LIGHT	near front LH headlight	29-1	
E12	RIGHT HIGH BEAM LIGHT	near front RH headlight		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E13	LEFT LOW BEAM LIGHT	near front LH headlight	29-1	
E14	RIGHT LOW BEAM LIGHT	near front RH headlight	29-3	
E15	LEFT PARK LIGHT	near front LH headlight		
E16	LEFT REAR LIGHT ASSEMBLY	LH side of body rear end		
E17	RIGHT REAR LIGHT ASSEMBLY	RH side of body rear end	01-1	
E19	RIGHT PARK LIGHT	near front RH headlight		
E21	LEFT FRONT MARKER LIGHT	front of vehicle		
E22	RIGHT FRONT MARKER LIGHT	front of vehicle		
E25	FRONT ASHTRAY LIGHT	center console		
E26	LEFT FOG LIGHT	under LH front bumper		
E27	RIGHT FOG LIGHT	under RH front bumper	13-2	
E28	FRONT CIGAR LIGHTER	center console		
E28a	CIGAR LIGHTER CONNECTION	TIRE INFLATION SYSTEM		
E29	FRONT CIGAR LIGHTER LIGHT	center console	22-3	
E32	LUGGAGE COMPARTMENT LIGHT	in luggage compartment (ROADSTER)		
E32	LUGGAGE COMPARTMENT LIGHT	in roof panel (COUPE)		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	in roof panel		
E43	LEFT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate		
E44	RIGHT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate		
E51	LEFT WASHER JET HEATER	on underside of engine hood	37-1	
E52	RIGHT WASHER JET HEATER	on underside of engine hood	37-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E56	DRIVER'S SEATBACK HEATER	in top of LH backrest		
E57	DRIVER'S SEAT HEATER	under LH front seat		
E58	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	in top of RH backrest		
E82	TRANSMISSION POSITION INDICATOR LIGHT	center console	22-1	
E96	GEAR SHIFT LEVER INDICATOR	center console		
E99	HARD TOP CONNECTOR 1	near LH rear wheel well		
E105	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	
E106	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	
E800	FRONT LEFT INTERIOR LIGHT	near interior rear view mirror		
F97	FUSIBLE LINK	in RH side of luggage compartment	01-1	
G1	BATTERY	in RH side of luggage compartment	01-1	
G5	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel		
G6	PASSENGER'S AIR BAG GAS GENERATOR	behind glove box above		
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	in LH front seat belt buckle	36-2	
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	in RH front seat belt buckle	36-2	
G14	LEFT SIDE AIR BAG GAS GENERATOR	LH front door	16-2	
G15	RIGHT SIDE AIR BAG GAS GENERATOR	RH front door	35-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
G6400	B+ JUNCTION POINT E–BOX	rear RH side of engine compartment in E–Box	41-2	
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment	01-2	
G6509	GENERATOR	front LH side of engine compartment	02-3	
G7512	B+ JUNCTION POINT	below LH side of dash		
H1w	ANTI–THEFT HORN (ALPINE)	rear LH side of engine compartment	09-1	
H2	LEFT HORN	under LH front bumper		
H3	RIGHT HORN	RH front of wheel well	13-2	
H4	RIGHT FRONT TURN LIGHT	front of vehicle		
H7	LEFT FRONT TURN LIGHT	front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10	CHIME MODULE	below LH side of dash		
H34	HIGH LEVEL STOP LIGHT	on lift gate (ROADSTER)	45-1	
H34	HIGH LEVEL STOP LIGHT	on lift gate (COUPE)		
H45	RIGHT REAR SPEAKER	in roof panel		
H46	LEFT REAR SPEAKER	in roof panel		
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A–pillar		
H52	RIGHT REAR LOW RANGE SPEAKER	in rear speaker box		
H53	RIGHT REAR HIGH RANGE SPEAKER	in roof panel		
H54	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H54z .	REAR RIGHT MID–HIGH RANGE SPEAKER	in rear speaker box (ROADSTER)	07-3	
H54z .	REAR RIGHT MID–HIGH RANGE SPEAKER	in roof panel (COUPE)		
H55 . .	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H55z .	REAR LEFT MID–HIGH RANGE SPEAKER	in rear speaker box (ROADSTER)	10-1	
H55z .	REAR LEFT MID–HIGH RANGE SPEAKER	in roof panel (COUPE)		
H56 . .	LEFT REAR HIGH RANGE SPEAKER	in roof panel		
H57 . .	LEFT REAR LOW RANGE SPEAKER	in rear speaker box		
H58 . .	LEFT FRONT LOW RANGE SPEAKER . . .	in lower LH A–pillar		
H59 . .	LEFT FRONT HIGH RANGE SPEAKER . .	in upper LH front door		
H500 .	REAR WOOFER	in rear speaker box (COUPE)	46-1	
H500 .	REAR WOOFER	in rear speaker box (ROADSTER)		
I1008 .	SEAT MAT	in passenger's seat area		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K9	UNLOADER RELAY, TERMINAL 15	rear LH side of engine compartment in Power Distribution Box	09-3	
K16 . .	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K19 . .	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K21 . .	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K22 . .	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K33a .	AIR CONDITIONING RELAY, MOTRONIC .	rear LH side of engine compartment in Power Distribution Box	09-2	

BMW 3 Z3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K46	HIGH BEAM LIGHT RELAY	footwell, driver's side (USA)	19-1	
K46z	DAY LIGHT RELAY MODULE	footwell, driver's side (CANADA)		
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K70	CENTRAL LOCKING LUGGAGE COMPARTMENT LID MOTOR RELAY (ZV)	rear LH side of engine compartment in Power Distribution Box	08-2	
K94	ENGINE CONTROL RELAY (ABS/ASC)	rear LH side of engine compartment in Power Distribution Box	09-3	
K95	VALVE RELAY (ABS/ASC)	rear LH side of engine compartment in Power Distribution Box	09-3	
K910	PASSENGER'S SEAT TILT ADJUST CUT–OFF RELAY	underside of RH front seat	11-1	
K911	PASSENGER'S SEAT LENGTH ADJUST CUT–OFF RELAY	underside of RH front seat	11-1	
K920	DRIVER'S SEAT TILT ADJUST CUT–OFF RELAY	underside of LH front seat	10-2	
K921	DRIVER'S SEAT LENGTH ADJUST CUT–OFF RELAY	underside of LH front seat	10-2	
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E–Box (M VERSIONS)	00-1	
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E–Box (Z3 VERSIONS)	41-1	
K6304	SECONDARY AIR PUMP RELAY	rear RH side of engine compartment in E–Box (M VERSIONS)	00-1	
K6304	SECONDARY AIR PUMP RELAY	rear RH side of engine compartment in E–Box (Z3 VERSIONS)	41-1	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E–Box (M VERSIONS)	00-1	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E–Box (Z3 VERSIONS)	41-1	
K6301w	FUEL PUMP RELAY	below LH side of dash	19-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K6394	COMPRESSOR RELAY	TIRE INFLATION SYSTEM		
K18363	CONVERTIBLE TOP RELAY I (CLOSE)	in LH side of luggage compartment	25-3	
K18364	CONVERTIBLE TOP RELAY II (OPEN)	in LH side of luggage compartment	25-3	
L1	EWS TOROIDAL COIL	at ignition switch		
M2	FUEL PUMP	in fuel tank		
M3	WIPER MOTOR	rear of engine compartment	45-3	
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M9	AUXILIARY FAN MOTOR	behind front grille		
M12	DRIVER'S DOOR LOCK MOTOR	driver's door		
M13	PASSENGER'S DOOR LOCK MOTOR	passenger's door		
M17	LUGGAGE COMPARTMENT LOCK MOTOR	rear side of luggage compartment behind trim panel (ROADSTER)		
M17	LUGGAGE COMPARTMENT LOCK MOTOR	in lift gate (Z3 COUPE)	37-2	
M17	LUGGAGE COMPARTMENT LOCK MOTOR	in lift gate (M COUPE)	46-3	
M21	DRIVER'S WINDOW MOTOR	in driver's door	17-2	
M23	PASSENGER'S WINDOW MOTOR	in passenger's door	18-3	
M24y	TILT SUNROOF MOTOR	in roof panel		
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	rear LH side of engine compartment	08-3	
M30	BLOWER MOTOR	rear of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M51	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	25-1	
M51	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat (WITH SPORT SEAT)	10-3	
M52	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	25-1	
M52	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat (WITH SPORT SEAT)	10-3	
M59	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat	24-1	
M60	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat	24-1	
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine	08-1	
M101	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	25-3	
M111	FRESH AIR RECIRCULATION MOTOR	RH side of LH footwell	21-2	
M805	ELECTRICAL COMPRESSOR	TIRE INFLATION SYSTEM		
M6506	E–BOX FAN	in E–Box		
M6510	STARTER	rear LH side of engine compartment	02-2	
N5	ANALOG CLOCK	center console		
N8	ANTENNA AMPLIFIER AM/FM	in LH side of luggage compartment behind trim panel (ROADSTER)		
N8	ANTENNA AMPLIFIER AM/FM	in roof panel (COUPE)	37-3	
N9	RADIO	center console		
N12w	ANTI–THEFT CONTROL MODULE (ALPINE)	behind glove box		
N17	CRASH CONTROL MODULE	footwell, driver's side	19-1	
N22	CD CHANGER	in RH side of luggage compartment		
P90	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
P95	AUXILIARY FUSE BOX	below LH side of dash		
P97	AUXILIARY FUSE BOX	below LH side of dash	19-1	
P98	FUSE HOLDER IN E–BOX	rear RH side of engine compartment in E–Box	40-3	
P99	FUSE HOLDER	in RH side of luggage compartment		
R11	BLOWER RESISTORS	rear of engine compartment behind firewall		
R31	AUXILIARY THROTTLE POSITION SENSOR	front of engine	33-3	
R6252	THROTTLE POSITION SENSOR	front of engine	33-3	
R6385	THROTTLE POSITION SENSOR/CRUISE CONTROL ACTUATOR	top LH side of engine	39-2	
R8554	RESISTOR	on cylinder head		
S2	IGNITION SWITCH	LH side of dash		
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	22-1	
S4	HORN SWITCH	on steering wheel		
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console		
S7	COMBINATION SWITCH	LH side of dash LH side of steering column above		
S8	LIGHT SWITCH	LH side of dash		
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	RH B–pillar	26-1	
S14	DRIVER'S DOOR JAMB SWITCH	LH B–pillar	27-1	
S17	MIRROR CONTROL SWITCH	in upper LH front door		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S18	HAZARD SWITCH	center console bottom		
S20w	RADIO ANTI–THEFT SWITCH	center console (radio and console removed)	36-1	
S21w	ENGINE HOOD SWITCH	near LH headlight assembly	29-1	
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above		
S30	BRAKE LIGHT SWITCH	LH footwell	20-1	
S31	PARK BRAKE SWITCH	center console on rear of park brake lever		
S32	CLUTCH SWITCH	LH footwell	20-1	
S36	TEMPERATURE SWITCH	front RH side of engine compartment	30-1	
S38y	TILT SUNROOF SWITCH	in roof panel		
S47	DRIVER'S DOOR LOCK SWITCH	in driver's door	17-1	
S49	PASSENGER'S DOOR LOCK SWITCH	in passenger's door		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH front seat		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	center console	23-1	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console	23-1	
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		
S58	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S75	BLOWER SWITCH	center of dash	21-3	
S76	REAR WINDOW DEFOGGER SWITCH	center console		

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S117	LUGGAGE COMPARTMENT LID LOCKING SWITCH	in lift gate		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever		
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever		
S143	CONVERTIBLE TOP ACTUATING SWITCH	center console		
S164	CONVERTIBLE TOP END–POSITION MICRO SWITCH	at convertible top linkage	17-3	
S198	JET HEATER THERMOSWITCH	on front RH wheel well		
S220	AIR CONDITIONING/RECIRCULATING SWITCH ASSEMBLY	center console	00-3	
S221	EVAPORATOR CONTROLLER	RH side of LH footwell	21-2	
S232	COMPRESSOR MAIN SWITCH	TIRE INFLATION SYSTEM		
S235	STARTER IMMOBILIZATION SWITCH	LH footwell	20-1	
S408	INTERIOR LIGHT SWITCH	near interior rear view mirror	28-2	
S531	TEMPERATURE WHEEL SWITCH	center of dash	21-3	
S559	PASSENGER'S AIR BAG CUT–OFF SWITCH	center console		
S826	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of luggage compartment lid		
S910	DRIVER'S SEAT LIMIT SWITCH	in driver's seatback	45-2	
S911	PASSENGER'S SEAT LIMIT SWITCH	in passenger's seatback	45-2	
S8503	PROGRAM SWITCH	center console	22-1	
S8507	KICK–DOWN SWITCH	behind gas pedal	19-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S8511	REVERSING LIGHT SWITCH	LH side of transmission	14-2	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment		
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment		
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment		
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment		
T6155	CYL. 5 IGNITION COIL	RH side of engine compartment		
T6156	CYL. 6 IGNITION COIL	RH side of engine compartment		
X0	B+ JUNCTION POINT	rear LH side of engine compartment in Power Distribution Box	02-1	
X2	BATTERY B+ START POINT	rear LH side of engine compartment in Power Distribution Box (M VERSIONS)		
X2	BATTERY B+ START POINT	in RH side of luggage compartment (Z3 VERSIONS)		
X4	GROUND	LH side of engine compartment		
X8	CABLE SOCKET B+	in RH side of luggage compartment		
X9	CABLE SOCKET B+	below LH side of dash		
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X20	(25 PINS, BLACK)	rear LH side of engine compartment	08-1	04-4
X22	(26 PINS, BLUE)	behind glove box	00-2	00-3
X29	(1 PIN, ——)	LH side of steering column		
X32	(12 PINS, NATURAL)	on steering column	19-2	02-4
X33	(12 PINS, BLACK)	on steering column	19-2	02-4
X35	(4 PINS, BLACK)	RH side of LH footwell	21-1	03-1
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X50	(9 PINS, BLACK)	Power Distribution Box, rear LH side of engine compartment		03-4
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X56	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X58	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X63	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X64	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X65	(9 PINS, BLACK)	below LH side of dash		03-4
X70	(8 PINS, BLACK)	rear LH side of engine compartment	08-3	06-2
X72	(6 PINS, NATURAL)	on steering column	19-2	05-3
X74	(50 PINS, NATURAL)	below center console	22-2	11-2
X78	(4 PINS, BLACK)	on steering column	20-1	03-1
X82	(3 PINS, BLACK)	under radiator	13-1	05-5
X85	(3 PINS, BLACK)	rear LH side of engine compartment	14-3	05-5
X87	(3 PINS, BLACK)	RH top of radiator	30-1	02-5
X105	(2 PINS, GRAY)	on underside of engine hood	37-1	
X106	(2 PINS, GRAY)	on underside of engine hood	37-1	
X107	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir		
X111	(2 PINS, BLACK)	rear LH side of engine compartment	09-1	
X113	(3 PINS, GRAY)	behind RH front wheel	13-3	06-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X114	(3 PINS, GRAY)	behind LH front wheel	12-2	06-3
X118	(2 PINS, BLACK)	behind LH front wheel	12-2	
X121	(2 PINS, WHITE)	LH footwell	20-1	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir		
X127	(4 PINS, BLACK)	front RH side of engine compartment	30-2	05-4
X128	(3 PINS, BLACK)	front LH side of engine compartment		02-5
X130	(2 PINS, GRAY)	near front LH headlight	29-2	
X131	(2 PINS, BLACK)	near front LH headlight	29-2	
X132	(2 PINS, BLACK)	on front LH wheel well		
X133	(2 PINS, BLACK)	on front RH wheel well	13-2	
X134	(2 PINS, BLACK)	near front RH headlight	29-3	
X135	(2 PINS, GRAY)	near front RH headlight	29-3	
X137	(3 PINS, BLACK)	front RH side of engine compartment	30-3	02-5
X142	(2 PINS, GRAY)	under LH rear of car	16-1	
X143	(2 PINS, GRAY)	under RH rear of car	15-3	
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	30-2	05-5
X165	GROUND	front RH side of engine compartment	04-2	
X166	GROUND	front LH side of engine compartment	05-1	
X170	GROUND	behind LH footwell speaker grille	03-2	
X256	(26 PINS, BLACK)	RH A–pillar	18-1	03-5
X257	(26 PINS, BLACK)	LH A–pillar	16-3	03-5

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	20-2	01-3
X275	(4 PINS, NATURAL)	under LH front seat	25-2	03-1
X275	(4 PINS, NATURAL)	under LH front seat (WITH SPORT SEAT)	10-3	03-1
X279	(4 PINS, NATURAL)	under RH front seat	24-2	03-1
X279	(4 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-2	03-1
X285	(15 PINS, BLUE)	behind glove box	38-2	05-1
X295	(8 PINS, BLACK)	on steering column	19-2	03-3
X311	(3 PINS, BLACK)	in luggage compartment lid (ROADSTER)	28-1	01-1
X311	(3 PINS, BLACK)	in lift gate (COUPE)	37-2	01-1
X315	(2 PINS, BLACK)	in luggage compartment lid (ROADSTER)	28-1	
X315	(2 PINS, BLACK)	in lift gate (COUPE)	37-2	
X316	(4 PINS, VIOLET)	center console near gearshift lever		07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	01-1	02-1
X319	(8 PINS, BLACK)	in LH side of luggage compartment behind trim panel		02-1
X322	(6 PINS, BLACK)	footwell, driver’s side	19-1	03-6
X324	(4 PINS, VIOLET)	center console near gearshift lever		07-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl	45-3	03-1
X336	(3 PINS, BLACK)	in upper RH A–pillar		01-1
X351	(3 PINS, BLACK)	RH B–pillar	26-1	01-1
X352	(3 PINS, BLACK)	LH B–pillar	27-1	01-1
X357	(2 PINS, WHITE)	near interior rear view mirror	28-2	
X371	(3 PINS, BLACK)	near front LH headlight	29-1	02-5

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X372	(2 PINS, GRAY)	rear LH side of engine compartment	09-1	
X379	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X380	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X383	(2 PINS, BLACK)	on differential	15-2	
X389	(2 PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT		
X390	(2 PINS, BLACK)	RIGHT FRONT AUXILIARY TURN LIGHT		
X400	(8 PINS, BLACK)	center console		02-1
X413	(3 PINS, BLACK)	HIGH LEVEL STOP LIGHT (ROADSTER)	45-1	01-1
X413	(3 PINS, BLACK)	HIGH LEVEL STOP LIGHT (COUPE)		01-1
X423	(1 PIN, ——)	below center console on rear of park brake lever		
X424	(1 PIN, ——)	in LH side of luggage compartment behind trim panel (ROADSTER)		
X424	(1 PIN, ——)	in roof panel (COUPE)	37-3	
X494	GROUND	below center console	03-1	
X503	(12 PINS, BLACK)	LH side of dash	20-3	07-2
X504	(4 PINS, NATURAL)	LH side of dash	20-3	03-1
X511	(8 PINS, BLACK)	center console	22-1	02-1
X516	(5 PINS, BLACK)	center console		02-6
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, NATURAL)	RH side of LH footwell		04-3
X531	(1 PIN, NATURAL)	center console	22-3	
X532	(2 PINS, BLACK)	center console	22-3	
X537	(3 PINS, BLACK)	REAR LEFT MID–HIGH RANGE SPEAKER (ROADSTER)	10-1	01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X537	(3 PINS, BLACK)	in roof panel REAR LEFT MID–HIGH RANGE SPEAKER (COUPE)		01-1
X538	(3 PINS, BLACK)	REAR RIGHT MID–HIGH RANGE SPEAKER (ROADSTER)	07-3	01-1
X538	(3 PINS, BLACK)	in roof panel REAR RIGHT MID–HIGH RANGE SPEAKER (COUPE)		01-1
X539	(2 PINS, BLACK)	center console (radio and console removed)	36-1	
X605	(12 PINS, BLACK)	in RH forward side of luggage compartment (ROADSTER)	27-3	01-5
X605	(12 PINS, BLACK)	in RH forward side of luggage compartment (COUPE)	46-1	01-5
X606	(26 PINS, BLACK)	in RH forward side of luggage compartment (ROADSTER)	27-3	00-3
X606	(26 PINS, BLACK)	in RH forward side of luggage compartment (COUPE)	46-1	00-3
X623	(4 PINS, BLACK)	in driver’s door	17-2	07-1
X624	(4 PINS, BLACK)	in passenger’s door	18-3	07-1
X625	(6 PINS, BLACK)	in driver’s door	17-2	08-2
X641	(6 PINS, BLACK)	in passenger’s door	18-2	07-4
X643	(6 PINS, WHITE)	in roof panel		04-6
X651	(6 PINS, VIOLET)	center console	23-1	04-5
X658	(6 PINS, VIOLET)	center console	23-1	04-5
X660	(6 PINS, BLACK)	LH front door behind door panel		07-4
X693	(1 PIN, NATURAL)	TIRE INFLATION SYSTEM		
X700	(1 PIN, ––––)	behind RH footwell speaker grille	23-3	
X701	(1 PIN, ––––)	behind LH footwell speaker grille		
X709	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate		
X710	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate		
X711	(2 PINS, BLACK)	in luggage compartment lid	28-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X712	(1 PIN, BLACK)	in luggage compartment (ROADSTER)		
X712	(4 PINS, NATURAL)	in roof panel (COUPE)	37-3	
X713	(2 PINS, BLACK)	under RH rear of car	15-3	
X726	(2 PINS, NATURAL)	under LH front seat	25-1	
X726	(2 PINS, NATURAL)	under LH front seat (WITH SPORT SEAT)	10-3	
X728	(2 PINS, BLACK)	under LH front seat	25-1	
X728	(2 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-3	
X733	(4 PINS, BLACK)	under LH front seat	25-2	03-1
X733	(4 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-3	03-1
X734	(2 PINS, NATURAL)	under RH front seat	24-1	
X734	(2 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-1	
X737	(2 PINS, BLACK)	under RH front seat	24-1	
X737	(2 PINS, BLACK)	under RH front seat (WITH SPORT SEAT)	11-2	
X740	(4 PINS, BLACK)	under RH front seat	24-2	03-1
X740	(4 PINS, BLACK)	under RH front seat (WITH SPORT SEAT)	11-2	
X742	(2 PINS, YELLOW)	in passenger’s door		
X744	(4 PINS, GRAY)	in passenger’s door	18-3	05-4
X746	(3 PINS, YELLOW)	in passenger’s door	18-3	10-5
X747	(2 PINS, YELLOW)	in driver’s door	17-1	
X749	(2 PINS, GRAY)	in driver’s door	17-2	
X753	(3 PINS, YELLOW)	in driver’s door	17-2	10-5
X760	(3 PINS, BLACK)	RIGHT REAR HIGH RANGE SPEAKER		01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X761	(1 PIN, BLACK)	RIGHT REAR SPEAKER		
X762	(3 PINS, BLACK)	LEFT REAR HIGH RANGE SPEAKER		01-1
X763	(1 PIN, BLACK)	LEFT REAR SPEAKER		
X766	(2 PINS, BLACK)	LH front of vehicle		
X767	(2 PINS, BLACK)	RH front of vehicle		
X768	(2 PINS, BLACK)	on front LH wheel well		
X769	(2 PINS, BLACK)	RH front of wheel well	13-2	
X770	(2 PINS, YELLOW)	in RH front bumper	11-3	
X771	(2 PINS, NATURAL)	RH side of LH footwell	21-2	
X778	(4 PINS, BLACK)	under LH front seat		07-1
X778	(4 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-2	07-1
X782	(3 PINS, ORANGE)	behind glove box above	00-2	07-5
X783	(3 PINS, ORANGE)	underside of steering column	36-3	07-5
X898	(8 PINS, BLACK)	under rear storage compartment (ROADSTER)	26-2	08-3
X898	(4 PINS, NATURAL)	center console (M COUPE)		07-1
X898	(8 PINS, BLACK)	center console (Z3 COUPE)		08-3
X904	(4 PINS, BLACK)	RH side of LH footwell		03-1
X905	(7 PINS, BLACK)	center of dash	21-3	09-3
X1014	(1 PIN, BLACK)	center console	22-3	
X1098	(3 PINS, BLACK)	LH side of dash	20-3	01-1
X1116	GROUND	in LH side of luggage compartment	06-3	
X1148	(2 PINS, BLACK)	on front RH wheel well		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1155	(2 PINS, BLACK)	center console		
X1166	GROUND	behind glove box	04-1	
X1170	(25 PINS, GRAY)	front LH side of engine compartment	39-3	09-4
X1175	(83 PINS, NATURAL)	behind glove box	00-2	08-4
X1178	(2 PINS, WHITE)	center console	27-2	
X1193	(3 PINS, BLACK)	center console	22-1	01-1
X1213	(2 PINS, BLACK)	center console		
X1255	(4 PINS, BLACK)	TIRE INFLATION SYSTEM		03-1
X1265	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1266	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1376	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X1380	(1 PIN, ——)	behind RH footwell speaker grille	23-3	
X1381	(1 PIN, ——)	behind LH footwell speaker grille		
X1439	(2 PINS, BLACK)	center console		
X1441	GROUND	below center console	03-3	
X1517	(6 PINS, BLACK)	RH side of LH footwell	21-2	09-2
X1588	(2 PINS, BLACK)	below LH side of dash	19-1	
X1715	(4 PINS, NATURAL)	in rear left speaker box (ROADSTER)	26-3	03-1
X1715	(4 PINS, NATURAL)	in RH forward side of luggage compartment (COUPE)	46-1	03-1
X1764	(3 PINS, BLACK)	RH side of steering column	38-3	01-1
X1775	(3 PINS, NATURAL)	in lift gate		10-5
X1805	(15 PINS, NATURAL)	LH side of steering column	38-3	05-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1883	(2 PINS, YELLOW)	LH front door	16-2	
X1884	(2 PINS, YELLOW)	RH front door	35-2	
X1885	(3 PINS, BLACK)	under LH front seat	35-3	10-1
X1886	(3 PINS, BLACK)	under RH front seat	35-1	10-1
X1976	CABLE SOCKET B+	below LH side of dash		
X1977	CABLE SOCKET B+	below LH side of dash		
X1978	CABLE SOCKET B+	below LH side of dash		
X1979	CABLE SOCKET B+	below LH side of dash		
X1980	CABLE SOCKET B+	below LH side of dash		
X1981	CABLE SOCKET B+	below LH side of dash		
X1982	CABLE SOCKET B+	below LH side of dash		
X2213	(15 PINS, NATURAL)	LH side of engine compartment	08-1	05-1
X2227	(4 PINS, BLUE)	center console		07-1
X3040	(2 PINS, BLACK)	TIRE INFLATION SYSTEM		
X3158	(1 PIN, NATURAL)	TIRE INFLATION SYSTEM		
X5115	(2 PINS, BLACK)	center console (radio and console removed)	36-1	
X6000	(88 PINS, NATURAL)	rear RH side of engine compartment in E–Box	00-1	00-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment (M VERSIONS)		04-1
X6002	(20 PINS, BLACK)	rear LH side of engine compartment (Z3 VERSIONS)		04-1
X6011	(2 PINS, BLUE)	rear RH side of engine compartment in E–Box	40-3	
X6021	(4 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-3	03-1
X6031	(12 PINS, BLACK)	rear LH side of engine compartment (M VERSIONS)	08-1	01-6

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6031	(18 PINS, BLACK)	rear RH side of engine compartment in E–Box (Z3 VERSIONS)	40-3	07-3
X6053	(4 PINS, NATURAL)	rear RH side of engine compartment in E–Box	41-2	03-1
X6054	(2 PINS, NATURAL)	rear RH side of engine compartment in E–Box	41-1	
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6105	(2 PINS, BLACK)	top center of engine		
X6106	(2 PINS, BLACK)	top center of engine		
X6120	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)	44-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	34-2	
X6130	(3 PINS, BLACK)	front of engine	43-1	10-2
X6133	(2 PINS, BLACK)	rear RH side of engine compartment	31-2	
X6139	(3 PINS, BLACK)	under LH center of car	47-1	05-5
X6150	(10 PINS, BLACK)	rear RH side of engine compartment	31-1	05-2
X6151	(3 PINS, BLACK)	top RH side of engine		09-5
X6152	(3 PINS, BLACK)	top RH side of engine		09-5
X6153	(3 PINS, BLACK)	top RH side of engine		09-5
X6154	(3 PINS, BLACK)	top RH side of engine		09-5
X6155	(3 PINS, BLACK)	top RH side of engine		09-5
X6156	(3 PINS, BLACK)	top RH side of engine		09-5
X6163	(2 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	31-3	

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6163	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)	44-2	
X6167	(2 PINS, BLACK)	LH side of engine compartment	39-3	
X6203	(3 PINS, BLACK)	rear LH side of engine compartment (M VERSIONS)	33-1	10-2
X6203	(3 PINS, BLACK)	rear LH side of engine compartment (Z3 VERSIONS)	41-3	06-4
X6204	(3 PINS, BLACK)	front of engine below intake manifold	33-1	10-2
X6205	(2 PINS, BLACK)	top center of engine (Z3 VERSIONS)	42-2	
X6205	(2 PINS, BLACK)	front LH side of engine compartment (M VERSIONS)	34-1	
X6207	(4 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	33-3	10-4
X6207	(3 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)		10-2
X6214	(3 PINS, BLACK)	front of engine	44-3	10-2
X6224	(3 PINS, BLACK)	front of engine	47-2	06-4
X6231	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)	44-1	
X6231	(2 PINS, BLACK)	front of engine (M VERSIONS)	32-2	
X6236	(2 PINS, BLACK)	LH side of engine	40-1	
X6238	(2 PINS, BLACK)	RH side of oil filter (M VERSIONS)	32-2	
X6238	(2 PINS, BLACK)	RH side of oil filter (Z3 VERSIONS)	44-1	
X6240	(4 PINS, BLACK)	LH side of engine near starter (Z3 VERSIONS)	42-1	06-1
X6240	(4 PINS, BLACK)	LH side of engine (M VERSIONS)	33-1	06-1
X6247	(2 PINS, BLACK)	under LH rear of car	12-1	
X6252	(3 PINS, BLACK)	front of engine	33-3	10-2
X6254	(3 PINS, BLACK)	LH side of engine	47-1	06-4
X6256	(4 PINS, BLACK)	rear of engine compartment		10-3

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6275	(2 PINS, BLACK)	top center of engine (M VERSIONS)	31-3	
X6275	(2 PINS, BLACK)	top center of engine (Z3 VERSIONS)	42-2	
X6276	(2 PINS, BLACK)	front of engine	47-2	
X6279	(2 PINS, BLACK)	front of engine	39-1	
X6300	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box		03-4
X6301	(9 PINS, BLACK)	below LH side of dash		03-4
X6304	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box		03-4
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box		03-4
X6385	(10 PINS, BLACK)	top LH side of engine	39-2	05-2
X6394	(9 PINS, BLACK)	TIRE INFLATION SYSTEM		03-4
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6433	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6437	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment (Z3 VERSIONS)		
X6454	GROUND	rear RH side of engine compartment (M VERSIONS)	04-2	
X6455	GROUND	rear RH side of engine compartment (M VERSIONS)	04-2	
X6455	GROUND	rear RH side of engine compartment (Z3 VERSIONS)		

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6456	GROUND	rear RH side of engine compartment	06-1	
X6500	(6 PINS, BLACK)	under rear storage compartment	07-1	06-5
X6501	(3 PINS, BLACK)	under rear storage compartment	07-1	02-5
X6506	(2 PINS, BLACK)	in E–Box	41-1	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	02-3	
X6510	CABLE SOCKET STARTER, TERMINAL 50	rear LH side of engine compartment at starter	02-2	
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment at starter		
X6512	CABLE SOCKET STARTER, TERMINAL 30	rear LH side of engine compartment at starter	02-2	
X6524	(3 PINS, BLACK)	front LH side of engine compartment	43-2	10-2
X6550	(2 PINS, BLACK)	under LH center of car	34-3	
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment	02-3	
X8500	(88 PINS, NATURAL)	rear RH side of engine compartment in E–Box	42-3	00-1
X8503	(6 PINS, VIOLET)	center console	22-1	04-5
X8505	(16 PINS, BLACK)	on RH side of transmission	15-1	11-4
X8507	(1 PIN, BLACK)	behind gas pedal	19-3	
X8511	(2 PINS, BLACK)	LH side of transmission	14-2	
X8516	(2 PINS, BLACK)	LH side of transmission		
X8533	(2 PINS, BLACK)	LH side of engine compartment	08-1	
X9023	(3 PINS, BLACK)	in lift gate	46-2	01-1
X9170	CABLE SOCKET GROUND	LH side of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X9336	(4 PINS, NATURAL)	in upper RH A–pillar		03-1
X9633	GROUND	behind LH footwell speaker grille	03-2	
X9990	(3 PINS, BLACK)	underside of LH front seat		11-1
X9991	(10 PINS, BLACK)	underside of LH front seat	10-2	11-5
X9994	(3 PINS, BLACK)	underside of RH front seat		11-1
X9995	(10 PINS, BLACK)	underside of RH front seat	11-1	11-5
X9997	(2 PINS, ORANGE)	behind steering wheel		
X10010	GROUND	behind glove box	04-1	
X10013	(2 PINS, NATURAL)	behind steering wheel		
X10054	(8 PINS, BLACK)	RH side of LH footwell	21-1	02-1
X10059	(3 PINS, BLACK)	center console		01-2
X10065	(2 PINS, WHITE)	LH footwell	14-1	
X10088	(2 PINS, BLACK)	front RH side of engine compartment	30-3	
X10170	(3 PINS, NATURAL)	near steering column	38-3	01-1
X10182	(18 PINS, BLACK)	behind glove box		07-3
X10214	(3 PINS, VIOLET)	under LH front seat	10-2	10-5
X10215	(3 PINS, VIOLET)	under RH front seat	11-1	10-5
X10216	(3 PINS, YELLOW)	in LH front seat belt buckle	36-2	07-5
X10217	(3 PINS, YELLOW)	in RH front seat belt buckle	36-2	07-5
X10218	(3 PINS, NATURAL)	under RH front seat	24-2	01-1
X10218	(3 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-2	01-1
X10239	(3 PINS, BLACK)	front of engine	33-3	10-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10241	(3 PINS, BLACK)	front RH side of engine compartment	30-2	05-5
X10244	(1 PIN, BLACK)	behind glove box	24-3	
X10245	(12 PINS, BLACK)	center console	00-3	01-3
X10246	(12 PINS, BLACK)	in rear left speaker box	26-3	01-3
X10262	(9 PINS, BLACK)	below LH side of dash		03-4
X10263	(6 PINS, BLACK)	center console		04-5
X10266	(6 PINS, BLACK)	in RH forward side of luggage compartment (ROADSTER)	27-3	04-5
X10266	(6 PINS, BLACK)	in RH forward side of luggage compartment (COUPE)	46-1	04-5
X10285	(2 PINS, BLACK)	in lift gate	46-3	
X10299	(4 PINS, BLACK)	RH rear wheel well	17-3	03-1
X10422	CABLE SOCKET B+	below LH side of dash		
X11104	(1 PIN, ——)	near interior rear view mirror	28-2	
X11105	(1 PIN, ——)	near interior rear view mirror	28-2	
X11106	(1 PIN, ——)	near interior rear view mirror	28-2	
X11209	(4 PINS, BLACK)	near RH rear wheel well	17-3	03-1
X11277	(2 PINS, BLACK)	in lift gate		
X11287	CONNECTORS SOLDERED UP	center of dash		
X11402	(3 PINS, VIOLET)	in luggage compartment lid		01-1
X11403	(3 PINS, VIOLET)	in luggage compartment lid		01-1
X13004	GROUND	behind glove box	04-1	
X13006	GROUND	in LH side of luggage compartment	05-3	
X13016	GROUND	in LH side of luggage compartment	05-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13017	(2 PINS, BLUE)	hard top		
X13025	(12 PINS, BLACK)	behind glove box	24-3	02-4
X13032	GROUND	under rear storage compartment	06-2	
X13045	(6 PINS, NATURAL)	center console		04-5
X13057	(2 PINS, BLACK)	in lift gate	37-2	
X13146	(8 PINS, BLACK)	in LH side of luggage compartment	25-3	02-1
X13233	(2 PINS, BLACK)	center of dash behind center console		
X13252	(15 PINS, BLACK)	behind glove box	38-2	05-1
X13253	(26 PINS, VIOLET)	behind glove box	38-2	00-3
X13254	(26 PINS, GREEN)	behind glove box	38-2	00-3
X13268	(3 PINS, BLACK)	in lift gate	37-2	01-1
X13287	(1 PIN, WHITE)	center of dash behind center console		
X18080	(1 PIN, BLACK)	in LH side of luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-2
X18170	GROUND	below center console	03-1	
X18180	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X18184	(1 PIN, BLACK)	RIGHT REAR SPEAKER		
X18189	(1 PIN, BLACK)	LEFT REAR SPEAKER		
X18190	(3 PINS, BLACK)	in driver’s door	17-2	10-5
X18196	(10 PINS, BLACK)	LH A–pillar	16-3	02-3
X18198	(10 PINS, BLACK)	RH A–pillar	18-1	02-3
X18279	(2 PINS, GRAY)	in driver’s door		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18280	(2 PINS, GRAY)	in passenger's door		
X18333	(2 PINS, BLACK)	on instrument cluster		
X18349	(8 PINS, BLACK)	center console	00-3	08-3
X18350	(6 PINS, BLACK)	RH side of LH footwell	21-2	03-6
X18363	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18364	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18365	(3 PINS, BLACK)	rear RH side of engine compartment in E–Box	41-2	04-3
X18516	(3 PINS, BLACK)	in passenger's door	18-3	10-5
X18518	(4 PINS, BLACK)	under RH front seat	11-1	07-1
X18520	(10 PINS, BLACK)	center console RADIO		
X18521	(10 PINS, BLACK)	RH side of luggage compartment CD CHANGER		
X18766	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X18767	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X18983	(2 PINS, BLACK)	center of dash		
X18984	(2 PINS, BLACK)	center of dash	21-3	
X18994	(3 PINS, VIOLET)	LH footwell	20-1	01-1
X19007	(12 PINS, BLACK)	behind glove box	38-1	01-3
X19018	(2 PINS, BLACK)	behind glove box	23-2	
X19022	(3 PINS, BLACK)	under radiator	13-1	05-5
X19023	(2 PINS, BLACK)	below LH side of dash		
X19245	(8 PINS, BLACK)	center console		02-1
X19527	(16 PINS, BLACK)	center console right	28-3	08-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X19528	(3 PINS, NATURAL)	under rear storage compartment	07-2	02-5
X19565	(6 PINS, NATURAL)	center console		11-3
X21111	(3 PINS, NATURAL)	center console		01-2
X21112	(2 PINS, BLACK)	center console		
X21113	(2 PINS, BLACK)	center console		
X21114	(2 PINS, BLACK)	center console		
X23146	(2 PINS, BLACK)	in LH side of luggage compartment	25-3	
X60001	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-2	01-4
X60002	(24 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-2	04-2
X60003	(52 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-2	03-2
X60004	(40 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-2	09-1
X60005	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-2	01-4
X62101	(4 PINS, BLACK)	on catalytic converter	43-3	06-1
X62102	(4 PINS, BLACK)	on catalytic converter	42-2	06-1
X62201	(4 PINS, BLACK)	on catalytic converter	43-3	06-1
X62202	(4 PINS, BLACK)	on catalytic converter	42-2	06-1
X64101	(2 PINS, BLACK)	rear RH side of engine compartment in E–Box	41-2	
X64102	(2 PINS, BLACK)	rear RH side of engine compartment in E–Box	41-2	
X64192	(2 PINS, BLACK)	rear RH side of engine compartment in E–Box		
X89977	(2 PINS, BLACK)	rear RH side of engine compartment in E–Box	40-3	
X91009	(2 PINS, BLACK)	under RH front seat	11-2	
Y1w	ABS HYDRAULIC UNIT	rear LH side of engine compartment	08-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y2	AIR CONDITIONING COMPRESSOR	front RH side of engine compartment		
Y4z	WATER VALVE	rear LH side of engine compartment	14-3	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console	27-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	on cylinder head		
Y6102	CYL. 2 FUEL INJECTION VALVE	on cylinder head		
Y6103	CYL. 3 FUEL INJECTION VALVE	on cylinder head		
Y6104	CYL. 4 FUEL INJECTION VALVE	on cylinder head		
Y6105	CYL. 5 FUEL INJECTION VALVE	on cylinder head		
Y6106	CYL. 6 FUEL INJECTION VALVE	on cylinder head		
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (Z3 VERSIONS)	44-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (M VERSIONS)	34-2	
Y6130	IDLE SPEED CONTROL VALVE	front of engine	43-1	
Y6133	AIR PUMP	rear RH side of engine compartment	31-2	
Y6139	LEAKAGE DIAGNOSIS PUMP	under LH center of car	47-1	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (M VERSIONS)	33-2	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (Z3 VERSIONS)	44-2	
Y6167	VALVE, INDIVIDUAL CONTROL INTAKE SYSTEM	LH side of engine compartment	39-3	
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	on cylinder head	31-3	

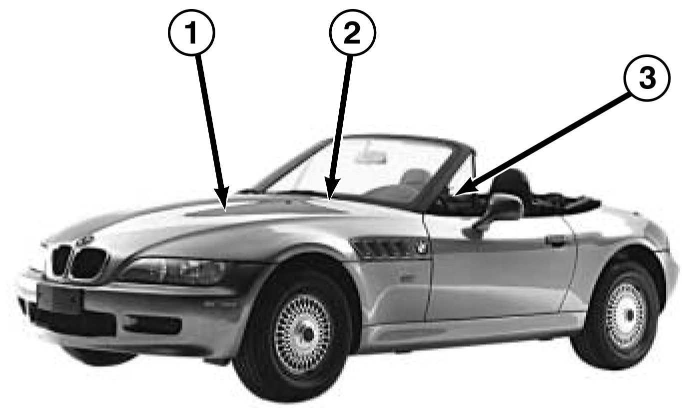
COMPONENT LOCATION CHART

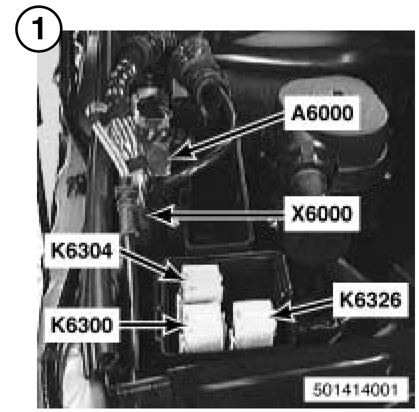
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y6275z	VARIABLE CAMSHAFT CONTROL VALVE 1 (INLET)	on cylinder head	42-2	
Y6276	VARIABLE CAMSHAFT CONTROL VALVE 2 (OUTLET)	on cylinder head	47-2	
Y6550	SOLENOID VALVE (”RUNNING LOSSES”)	under LH center of car	34-3	
Y8521	TRANSMISSION VALVE UNIT	on RH side of transmission	15-1	

BMW 3 Z3

7100.0 COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS





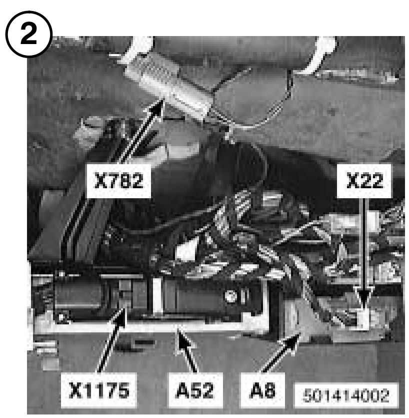
A6000
ENGINE CONTROL
MODULE (DME)

K6300
ENGINE CONTROL
MODULE RELAY

K6304
SECONDARY AIR
PUMP RELAY

K6326
UNLOADER RELAY,
TERMINAL 15

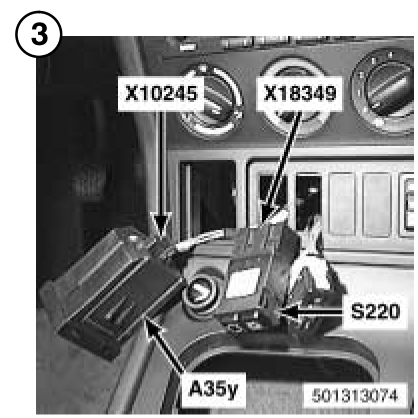
X6000



A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

A52
SLIP CONTROL
MODULE
(ABS/ASC)

X22
X782
X1175



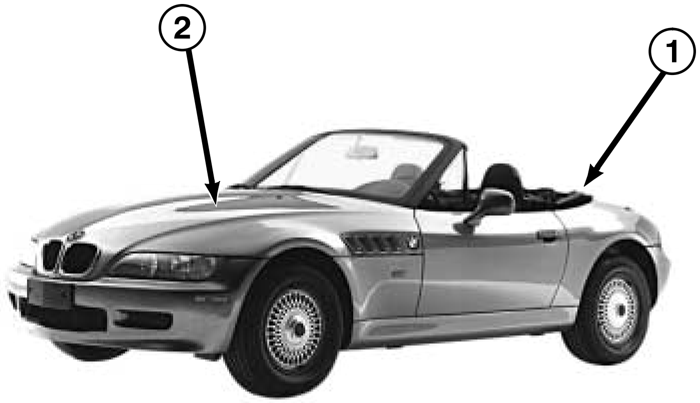
A35y
BOARD
COMPUTER
(BC – LOW)

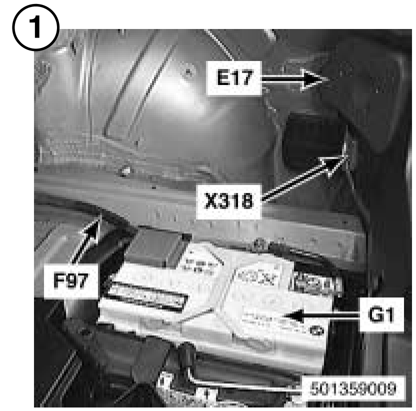
S220
AIR CONDITIONING/
RECIRCULATING
SWITCH ASSEMBLY

X10245
X18349

B(+)

COMPONENT LOCATION VIEWS





E17 X318
RIGHT REAR LIGHT
ASSEMBLY

F97
FUSIBLE LINK

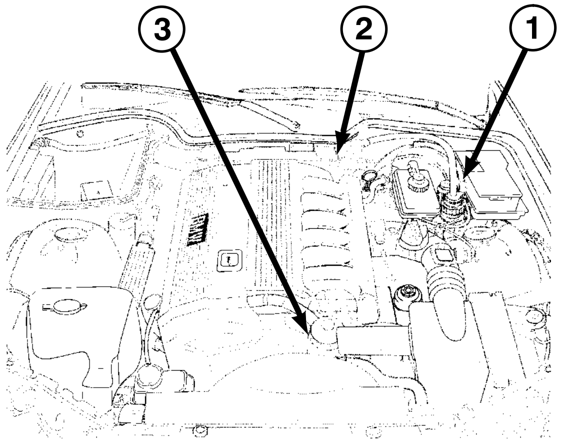
G1
BATTERY

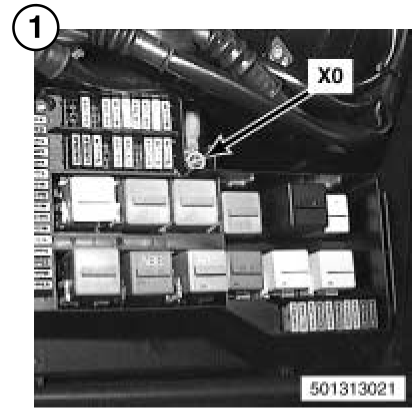


G6430
B+ JUMP START
JUNCTION POINT

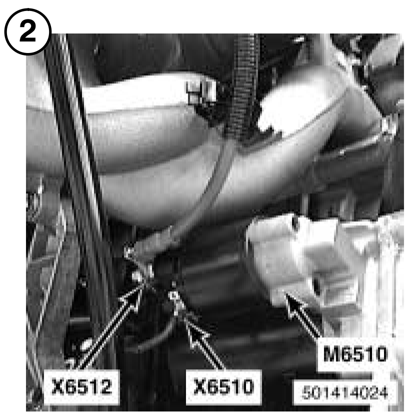
B(+)

COMPONENT LOCATION VIEWS



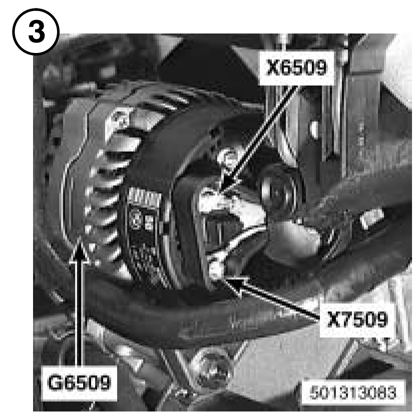


X0
B+ JUNCTION
POINT



M6510
STARTER

X6510
X6512

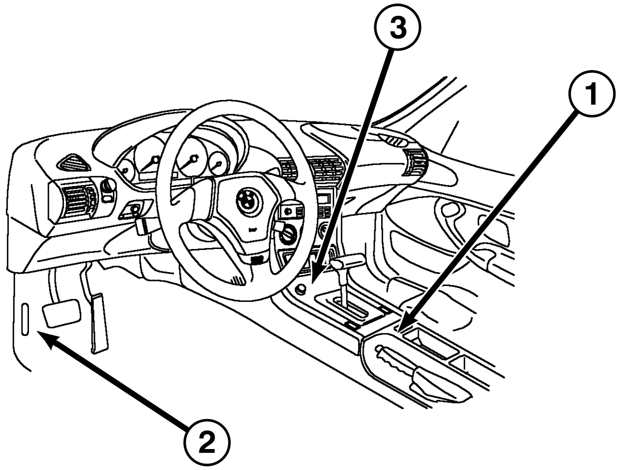


G6509
GENERATOR

X6509
X7509

B(–)

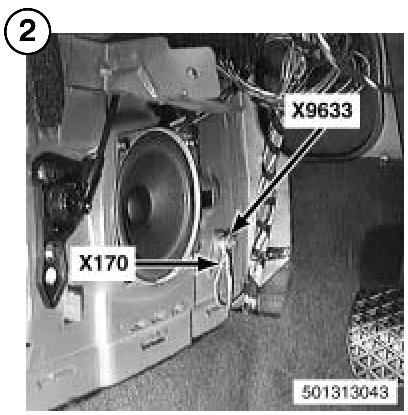
COMPONENT LOCATION VIEWS





X494
GROUND

X18170
GROUND



X170
GROUND

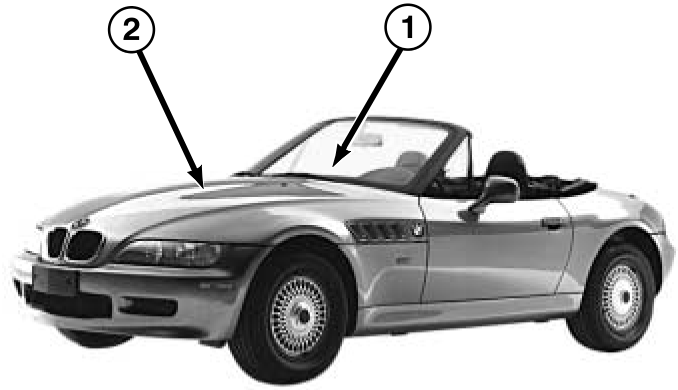
X9633
GROUND

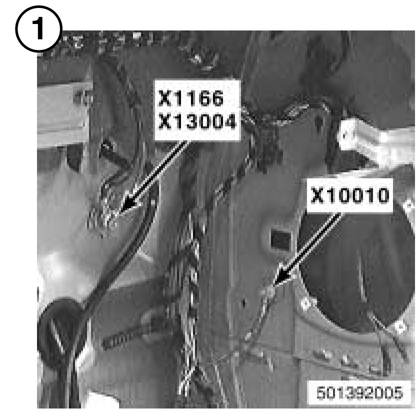


X1441
GROUND

B(–)

COMPONENT LOCATION VIEWS

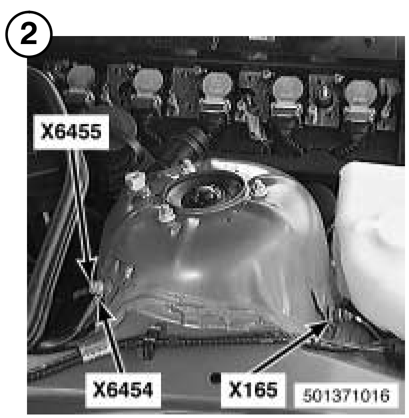




X1166 GROUND

X10010 GROUND

X13004 GROUND



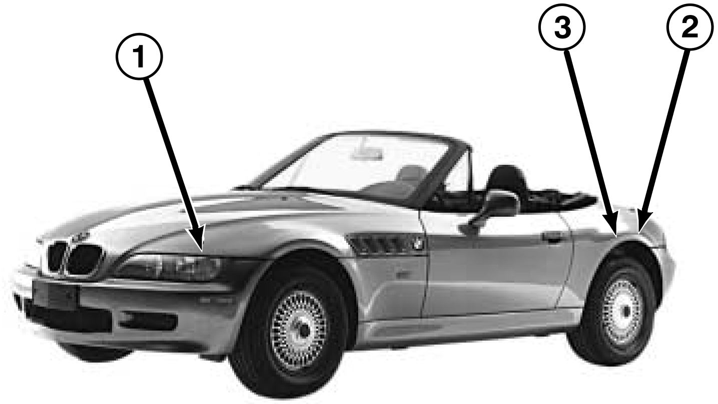
X165 GROUND

X6454 GROUND

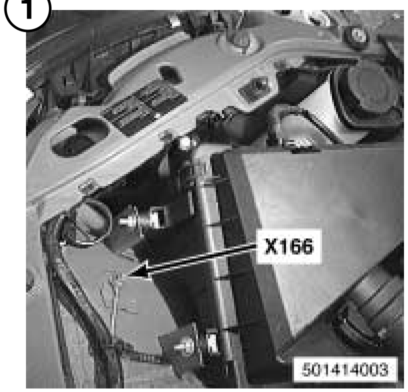
X6455 GROUND

B(–)

COMPONENT LOCATION VIEWS



1



X166
GROUND

2



X13016
GROUND

3

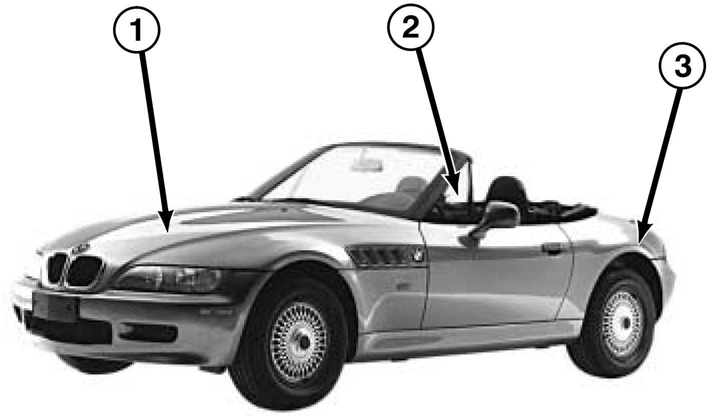


X13006
GROUND

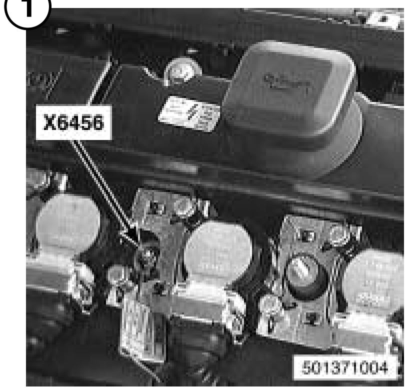
BMW 3
Z3

B(–)

COMPONENT LOCATION VIEWS



1



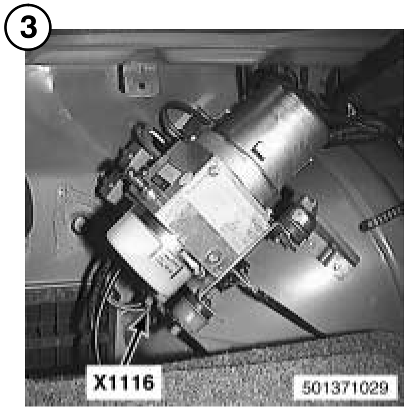
X6456
GROUND

2



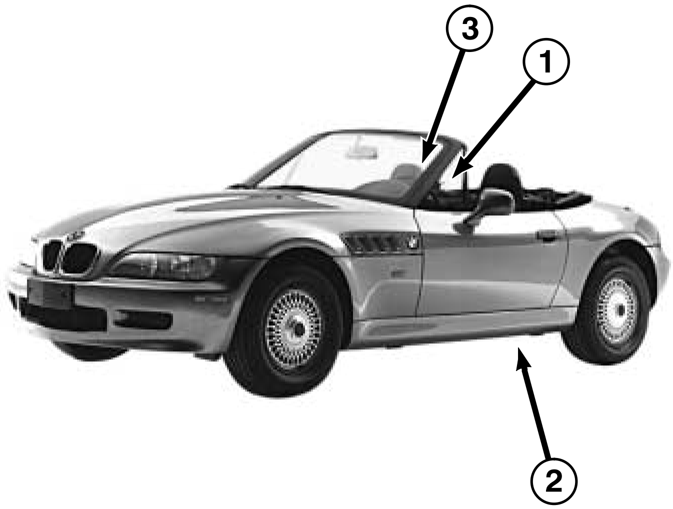
X13032
GROUND

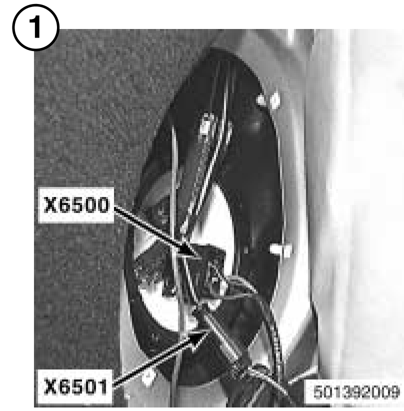
3



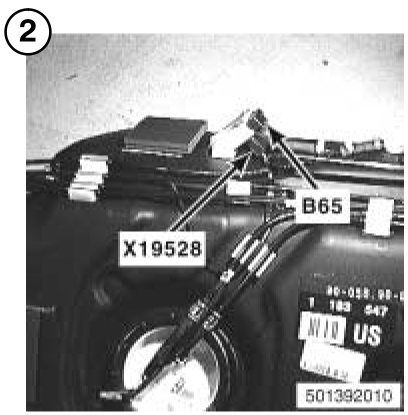
X1116
GROUND

COMPONENT LOCATION VIEWS





X6500
X6501



B65
FUEL TANK
PRESSURE
SENSOR

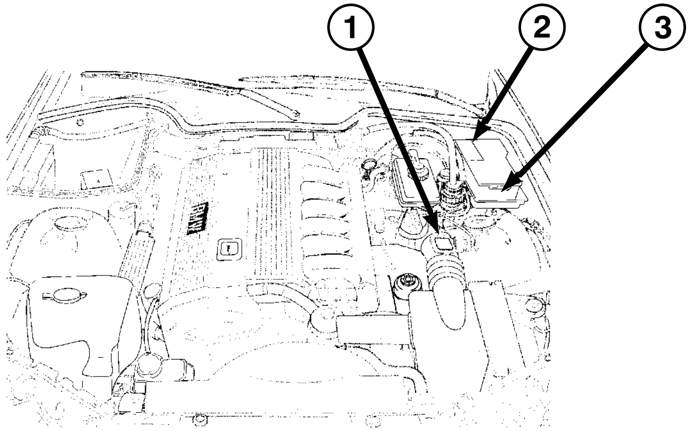
X19528

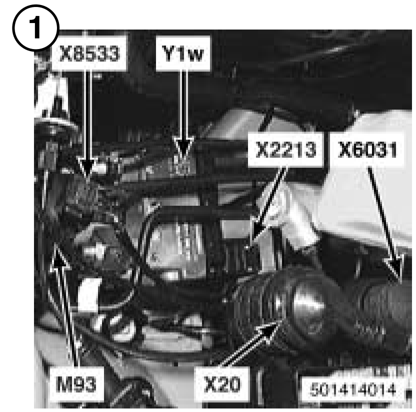


H54z
REAR RIGHT MID–
HIGH RANGE
SPEAKER

X538

COMPONENT LOCATION VIEWS

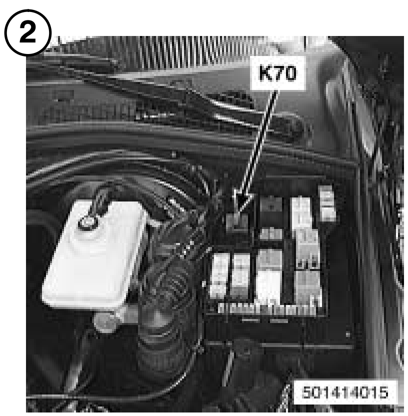




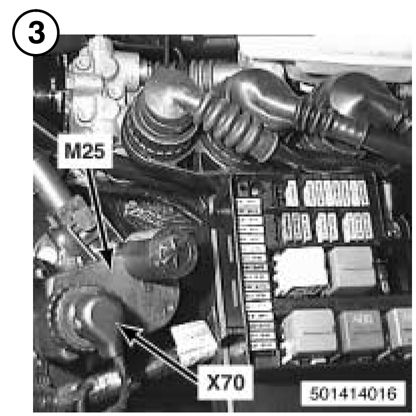
M93
AUXILIARY
THROTTLE
POSITION MOTOR
(ADS)

Y1w
ABS HYDRAULIC
UNIT

X20
X2213
X6031
X8533



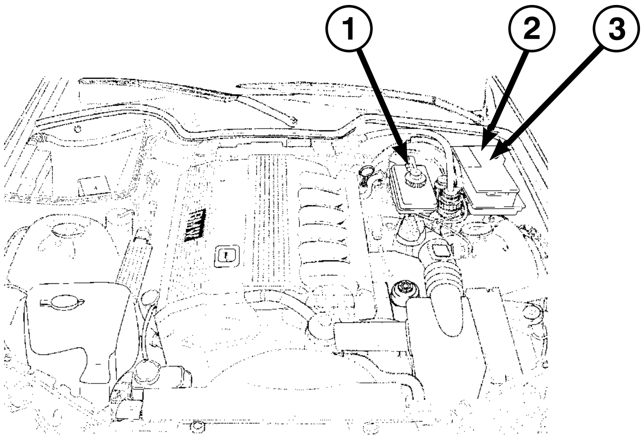
K70
CENTRAL LOCKING
LUGGAGE
COMPARTMENT
LID MOTOR RELAY
(ZV)

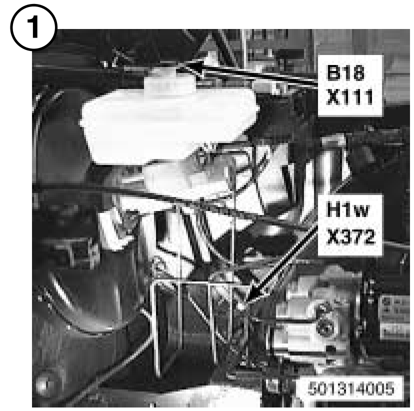


M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70

COMPONENT LOCATION VIEWS

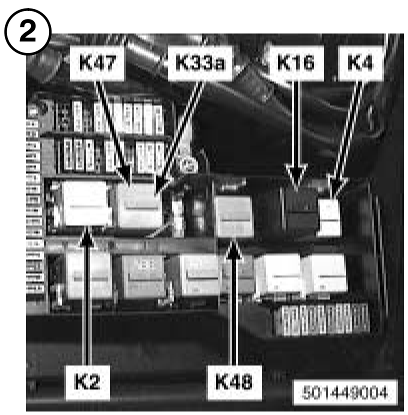




B18
BRAKE FLUID
LEVEL SWITCH

H1w
ANTI–THEFT HORN
(ALPINE)

X111
X372



K2
HORN RELAY

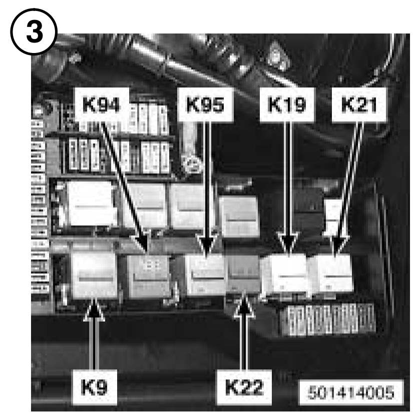
K4
BLOWER RELAY

K16
HAZARD FLASHER
RELAY

K33a
AIR CONDITIONING
RELAY, MOTRONIC

K47
FRONT FOG LIGHT
RELAY

K48
LOW BEAM LIGHT
RELAY



K9
UNLOADER RELAY,
TERMINAL 15

K19
COMPRESSOR
CONTROL RELAY

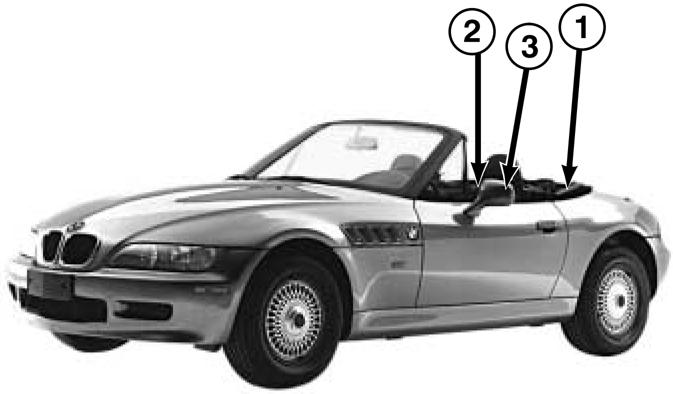
K21
NORMAL SPEED
RELAY

K22
HIGH SPEED
RELAY

K94
ENGINE CONTROL
RELAY (ABS/ASC)

K95
VALVE RELAY
(ABS/ASC)

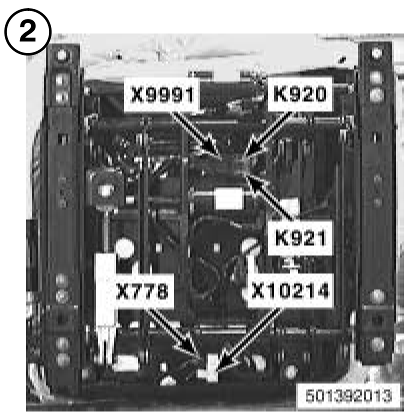
COMPONENT LOCATION VIEWS





H55z
REAR LEFT MID–
HIGH RANGE
SPEAKER

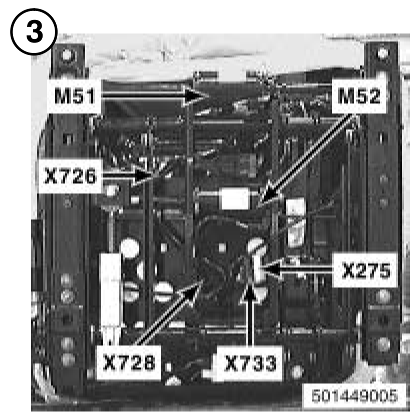
X537



K920
DRIVER'S SEAT
TILT ADJUST CUT–
OFF RELAY

K921
DRIVER'S SEAT
LENGTH ADJUST
CUT–OFF RELAY

X778
X9991
X10214

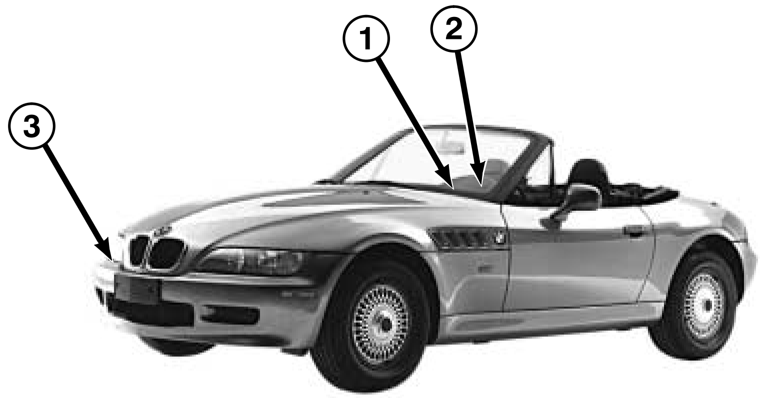


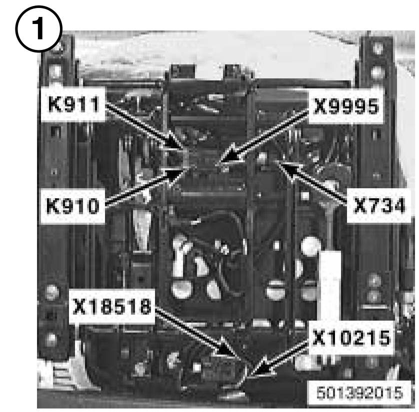
M51
DRIVER'S SEAT
MOVEMENT
MOTOR

M52
DRIVER'S SEAT
HEIGHT MOTOR

X275
X726
X728
X733

COMPONENT LOCATION VIEWS

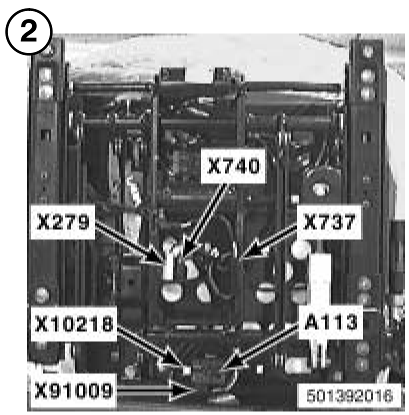




K910
PASSENGER'S
SEAT TILT ADJUST
CUT–OFF RELAY

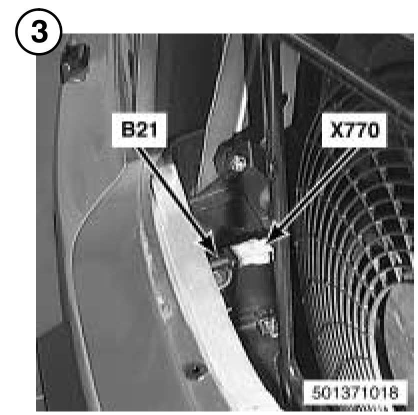
K911
PASSENGER'S
SEAT LENGTH AD-
JUST CUT–OFF
RELAY

X734
X9995
X10215
X18518



A113
SEAT OCCUPANCY
DETECTOR

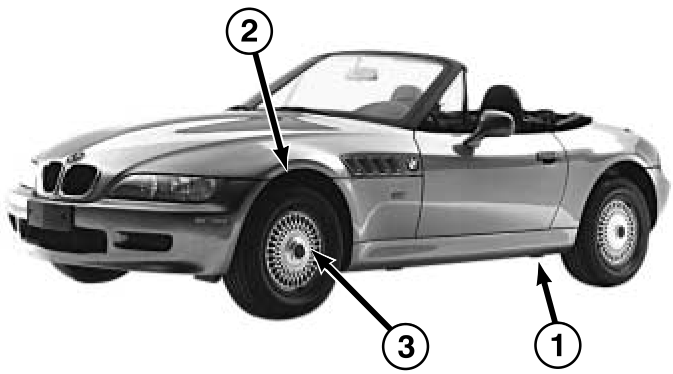
X279
X737
X740
X10218
X91009

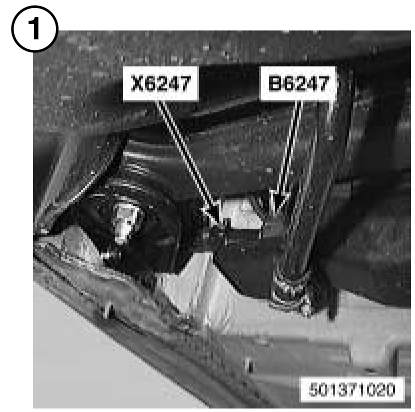


B21
ON–BOARD
COMPUTER
TEMPERATURE
SENSOR

X770

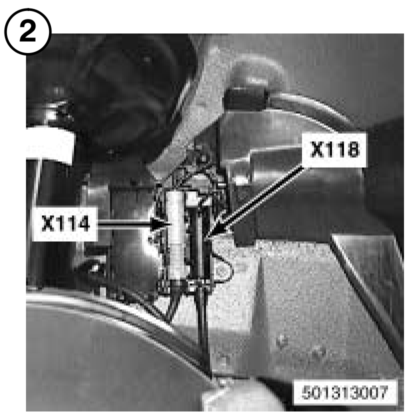
COMPONENT LOCATION VIEWS





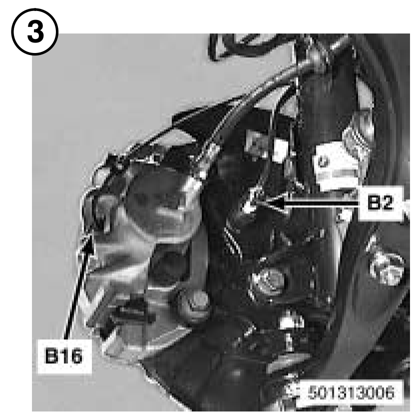
B6247
CHARCOAL FILTER
SHUT–OFF VALVE

X6247



X114

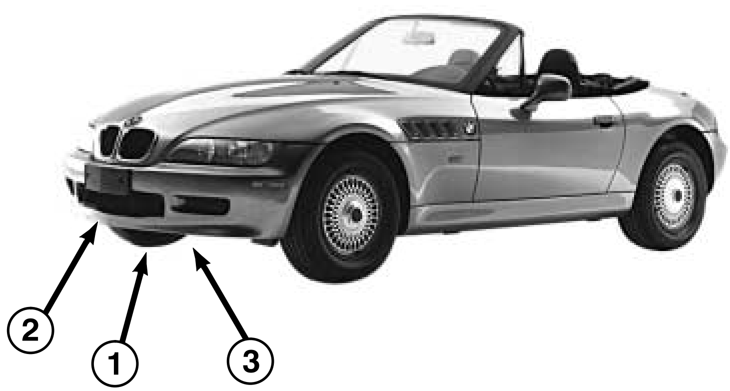
X118



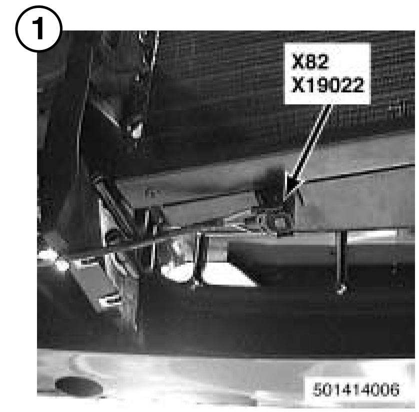
B2
LEFT FRONT
SPEED SENSOR –
ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

COMPONENT LOCATION VIEWS



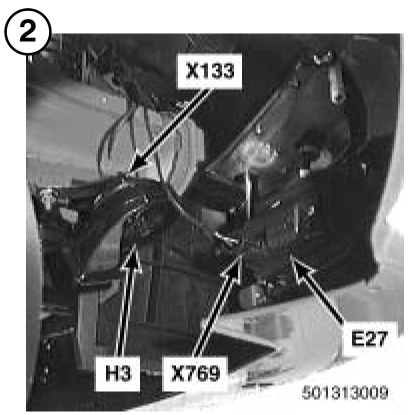
1



X82

X19022

2



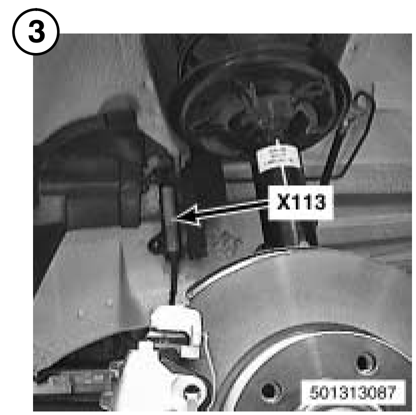
E27
RIGHT FOG LIGHT

H3
RIGHT HORN

X133

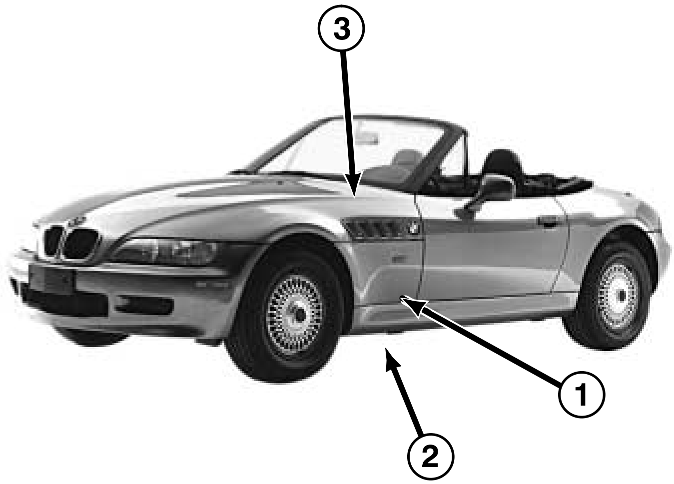
X769

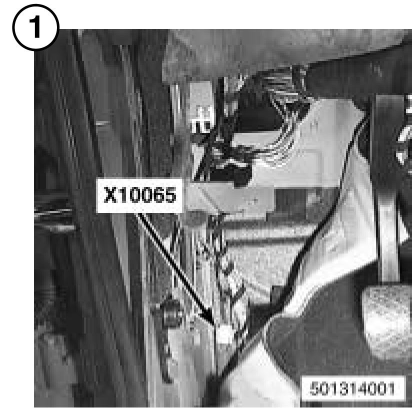
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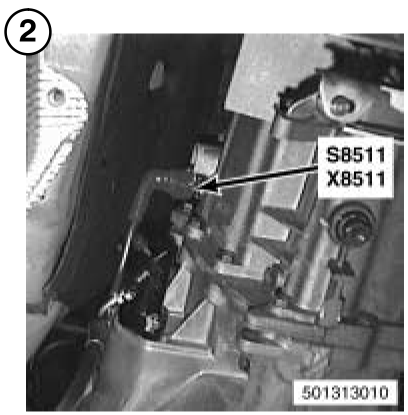
X113

COMPONENT LOCATION VIEWS



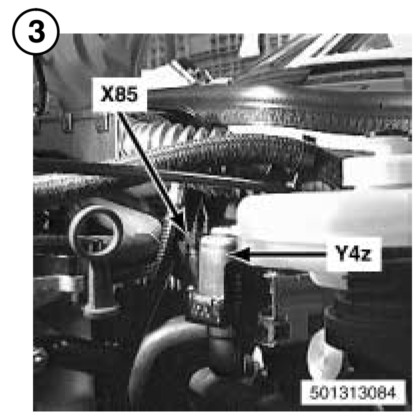


X10065



S8511
REVERSING LIGHT
SWITCH

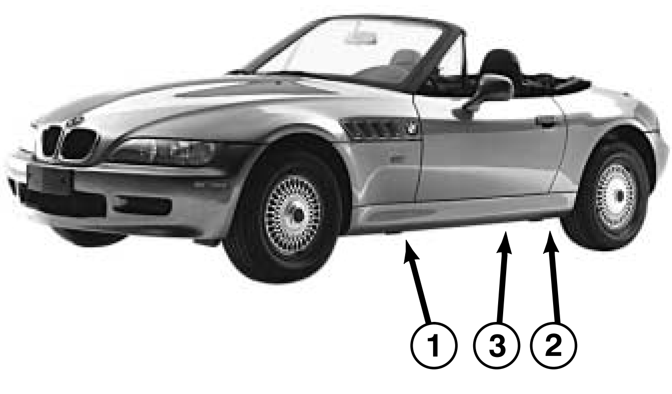
X8511



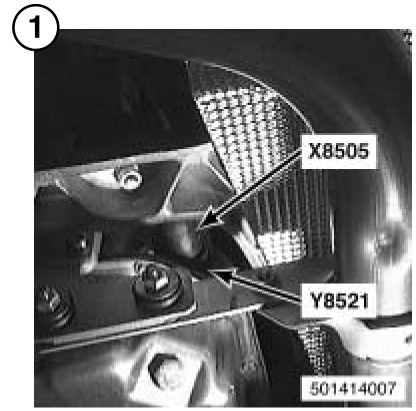
Y4z
WATER VALVE

X85

COMPONENT LOCATION VIEWS



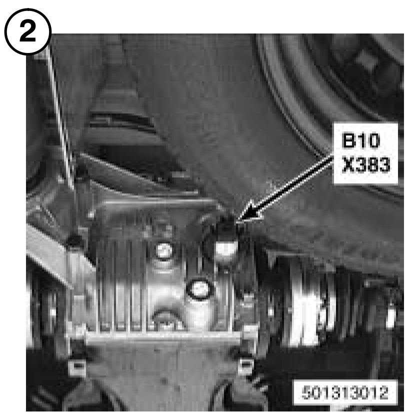
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Y8521
TRANSMISSION
VALVE UNIT

X8505

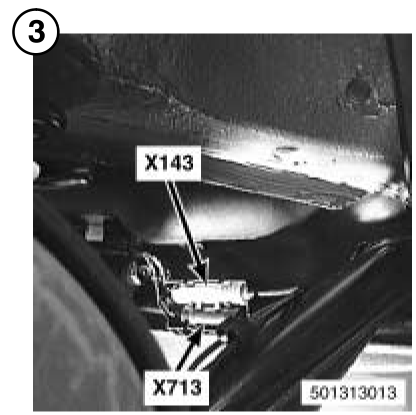
2



B10
VEHICLE SPEED
SENSOR

X383

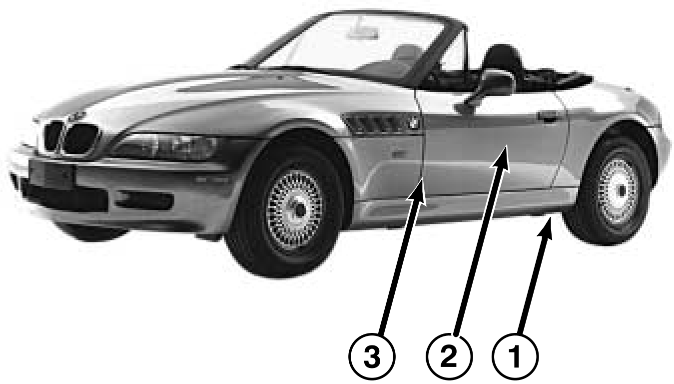
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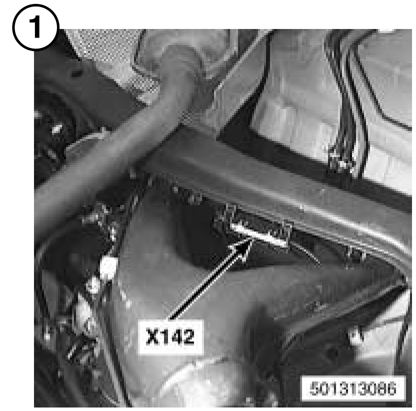


X143

X713

COMPONENT LOCATION VIEWS



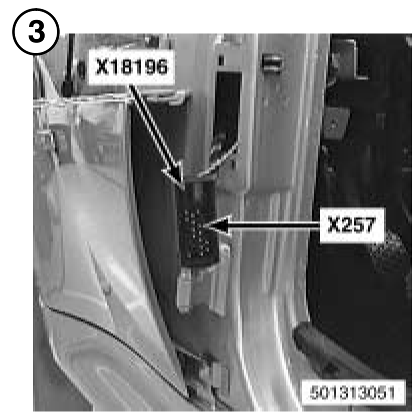


X142



G14
LEFT SIDE AIR BAG
GAS GENERATOR

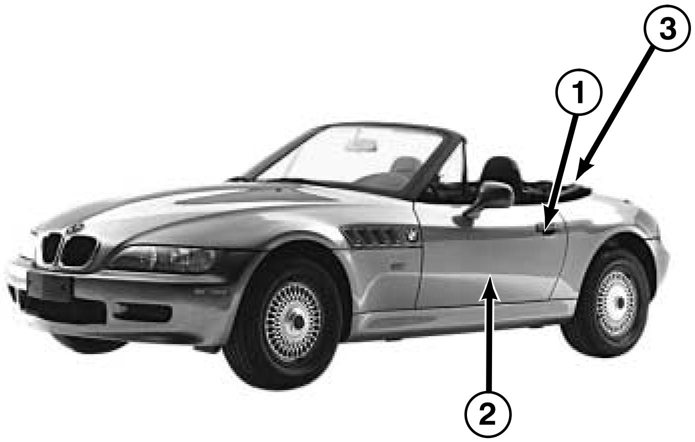
X1883



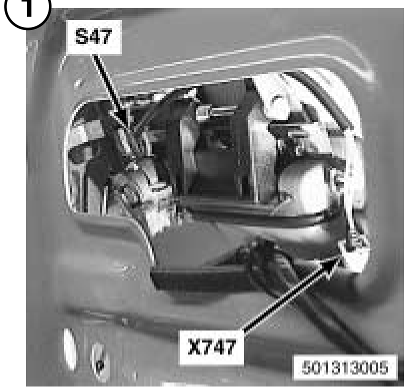
X257

X18196

COMPONENT LOCATION VIEWS



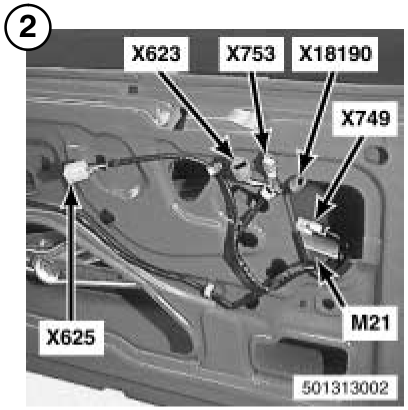
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S47
DRIVER'S DOOR
LOCK SWITCH

X747

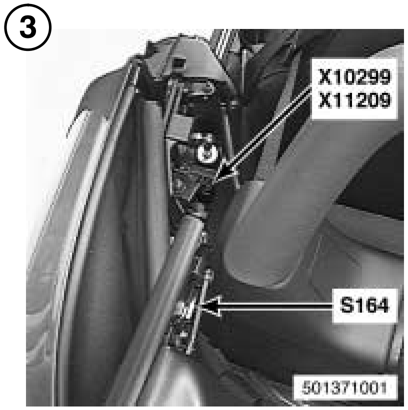
2



M21
DRIVER'S WINDOW
MOTOR

X623
X625
X749
X753
X18190

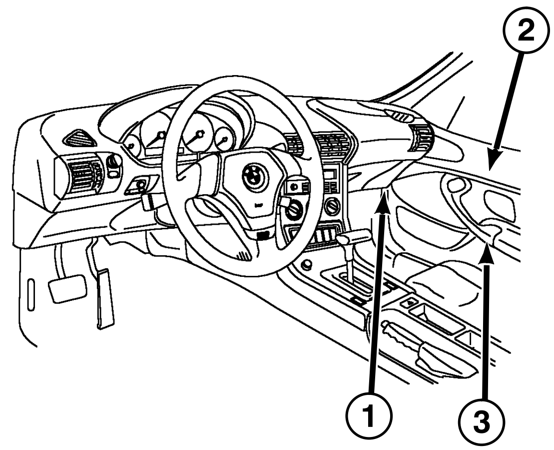
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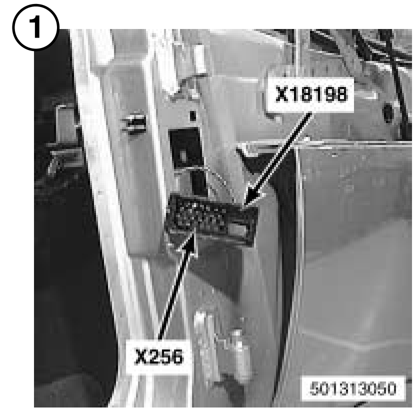


S164
CONVERTIBLE TOP
END–POSITION MI-
CRO SWITCH

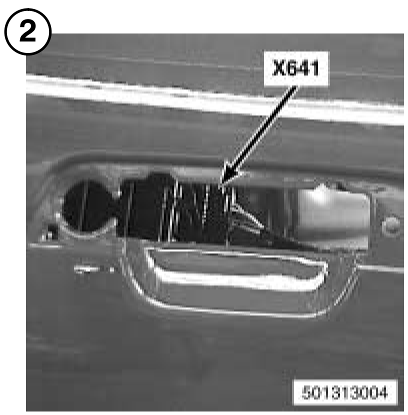
X10299
X11209

COMPONENT LOCATION VIEWS

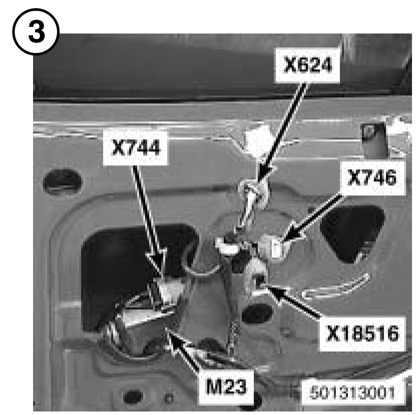




X256
X18198



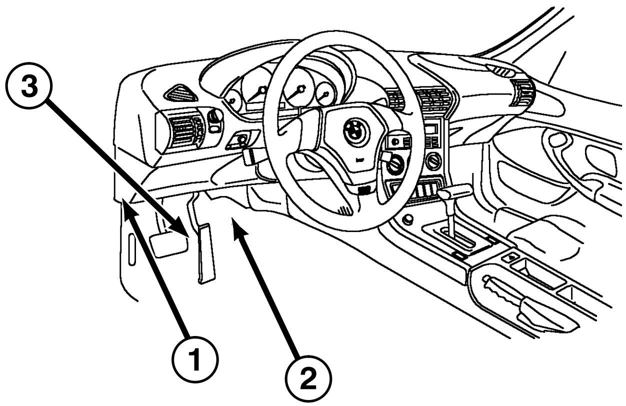
X641



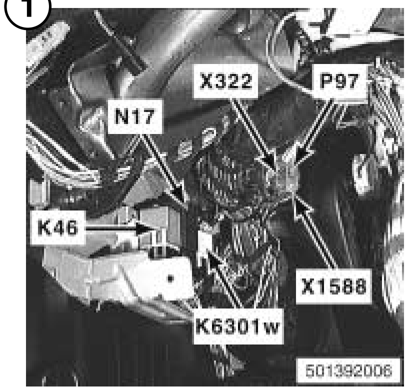
M23
PASSENGER'S
WINDOW MOTOR

X624
X744
X746
X18516

COMPONENT LOCATION VIEWS



1



K46
HIGH BEAM LIGHT
RELAY

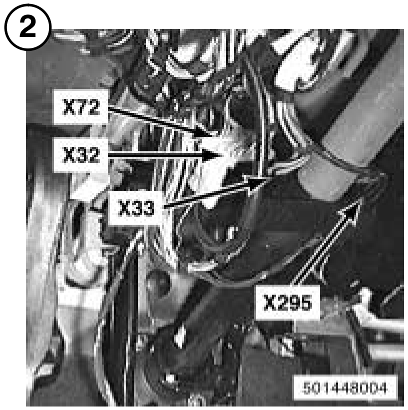
P97
AUXILIARY FUSE
BOX

K6301w
FUEL PUMP RELAY

X322
X1588

N17
CRASH CONTROL
MODULE

2



X32
X33
X72
X295

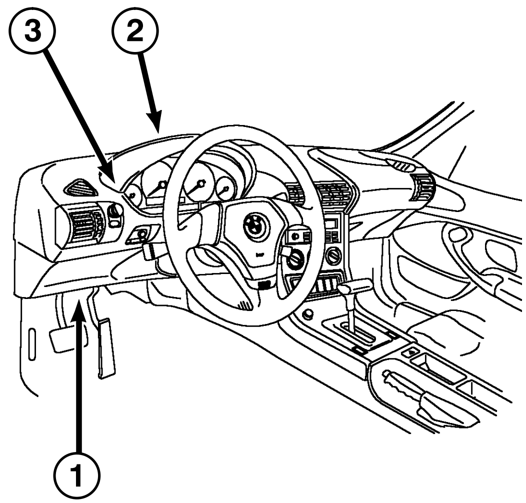
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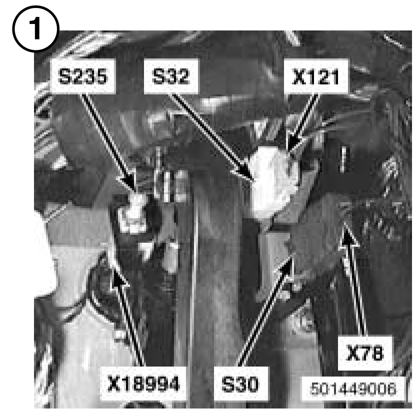


S8507
KICK–DOWN
SWITCH

X8507

COMPONENT LOCATION VIEWS



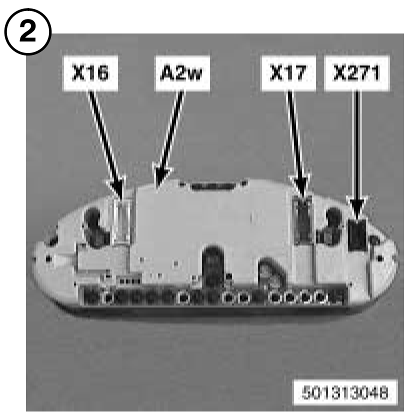


S30
BRAKE LIGHT
SWITCH

S32
CLUTCH SWITCH

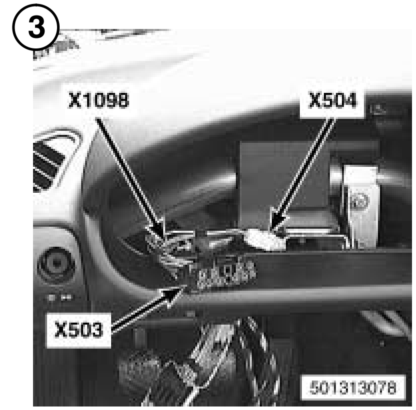
S235
STARTER
IMMOBILIZATION
SWITCH

X78
X121
X18994



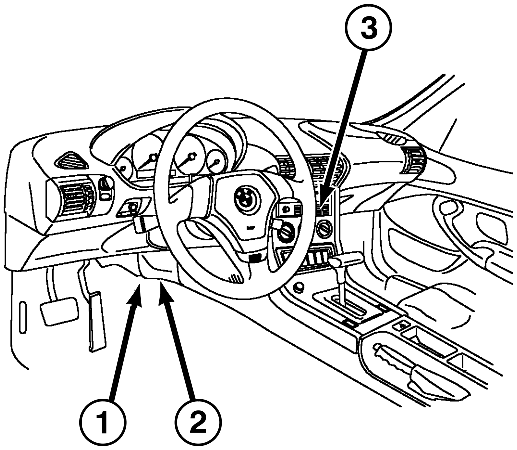
A2w
INSTRUMENT
CLUSTER

X16
X17
X271

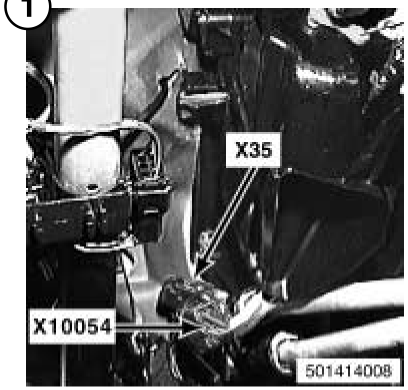


X503
X504
X1098

COMPONENT LOCATION VIEWS

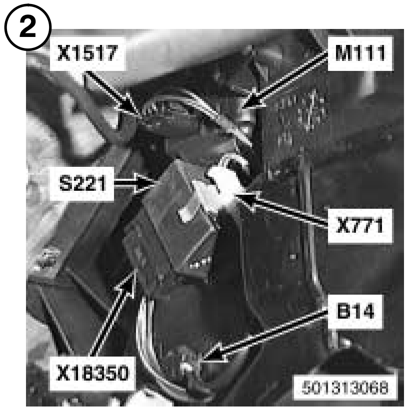


1



X35
X10054

2



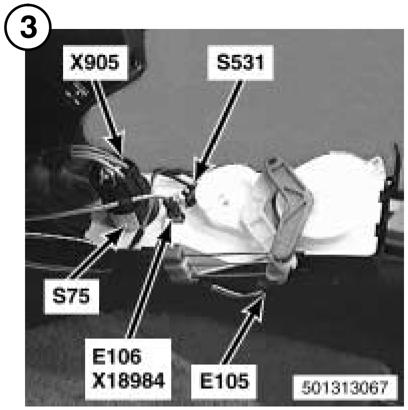
B14
EVAPORATOR
TEMPERATURE
SENSOR

M111
FRESH AIR
RECIRCULATION
MOTOR

S221
EVAPORATOR
CONTROLLER

X771
X1517
X18350

3



E105
HEAT/A/C
CONTROL PANEL
ILLUMINATION

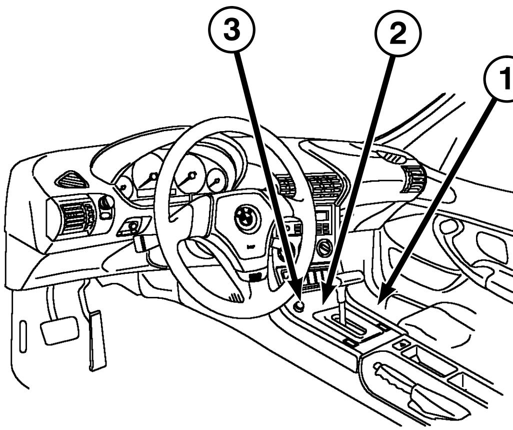
E106
HEAT/A/C
CONTROL PANEL
ILLUMINATION

S75
BLOWER SWITCH

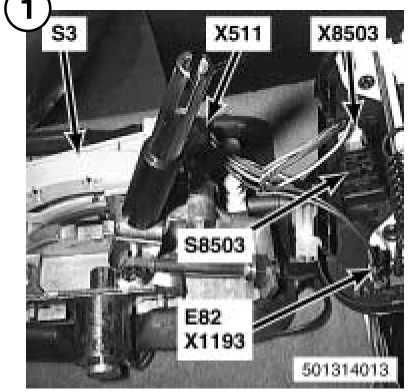
S531
TEMPERATURE
WHEEL SWITCH

X905
X18984

COMPONENT LOCATION VIEWS



1



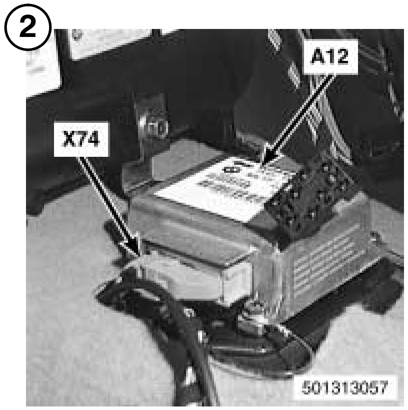
E82
TRANSMISSION
POSITION INDICA-
TOR LIGHT

X511
X1193
X8503

S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

S8503
PROGRAM SWITCH

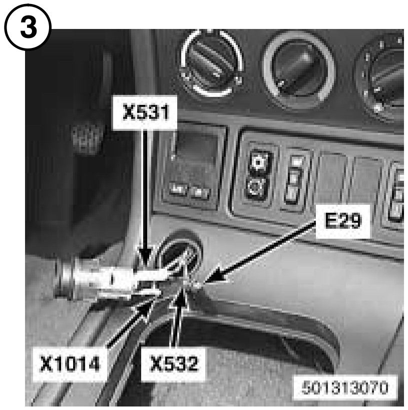
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A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE

X74

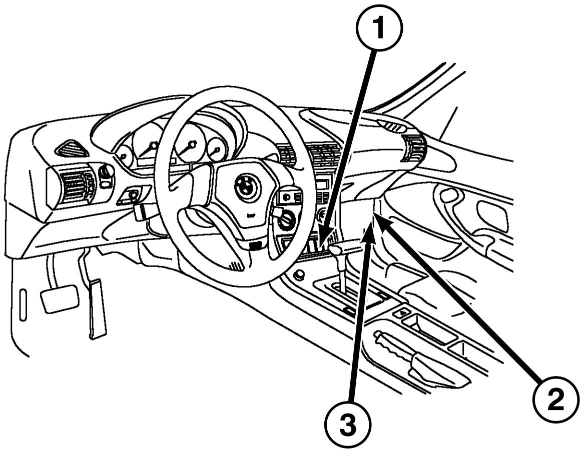
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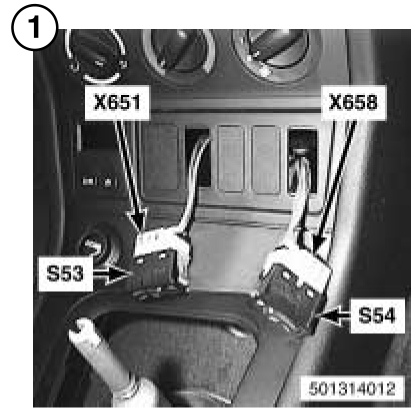


E29
FRONT CIGAR
LIGHTER LIGHT

X531
X532
X1014

COMPONENT LOCATION VIEWS



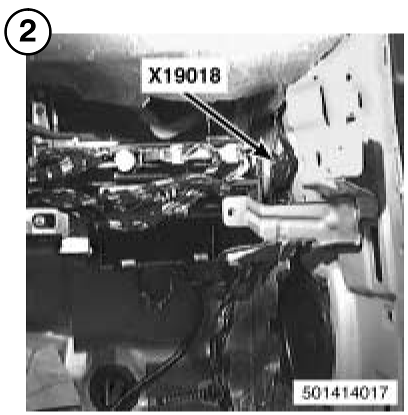


S53
DRIVER'S SEAT, SEAT HEATER SWITCH

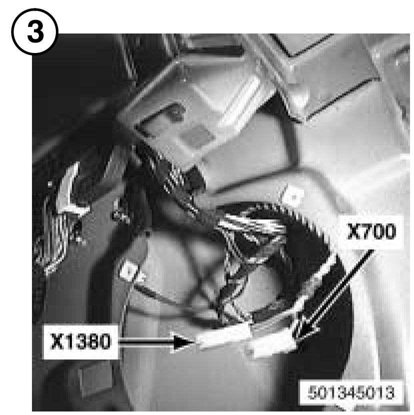
S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

X651

X658

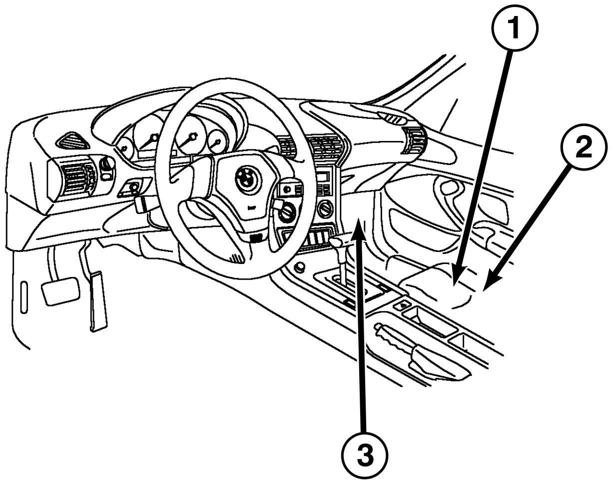


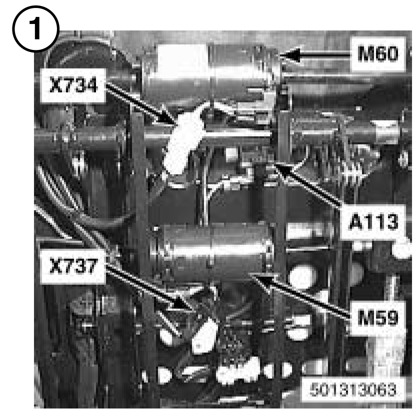
X19018



X700

X1380



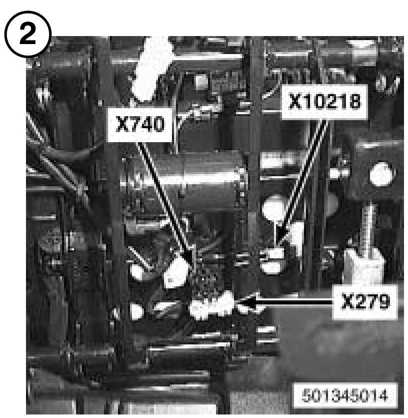


A113
SEAT OCCUPANCY
DETECTOR

X734
X737

M59
PASSENGER'S
SEAT HEIGHT
MOTOR

M60
PASSENGER'S
SEAT MOVEMENT
MOTOR

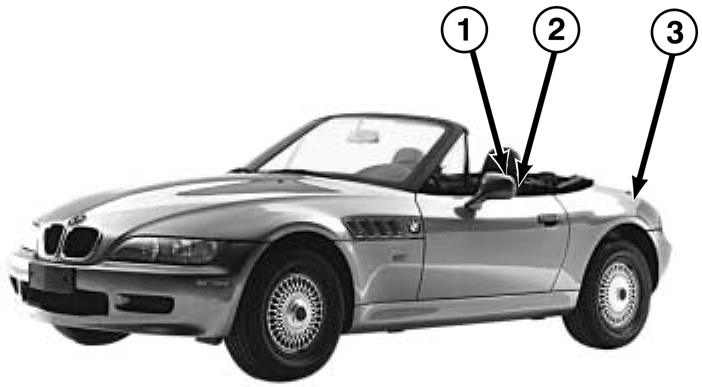


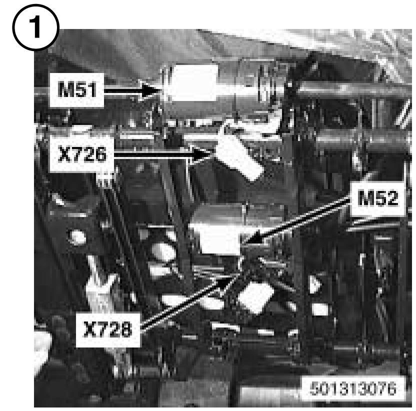
X279
X740
X10218



X10244
X13025

COMPONENT LOCATION VIEWS

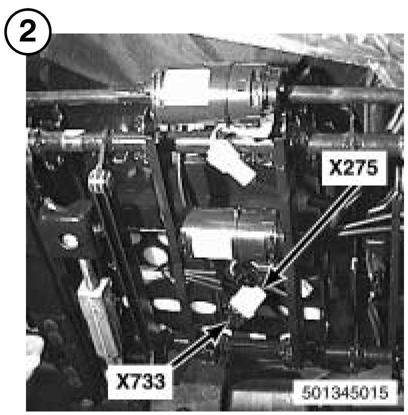




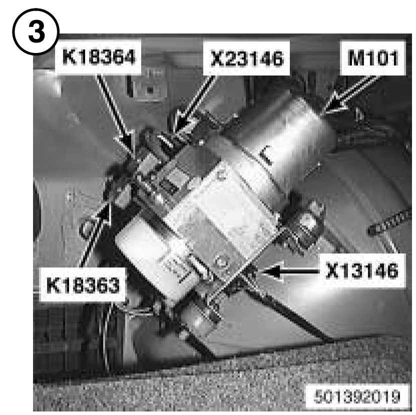
M51
DRIVER'S SEAT
MOVEMENT
MOTOR

M52
DRIVER'S SEAT
HEIGHT MOTOR

X726
X728



X275
X733

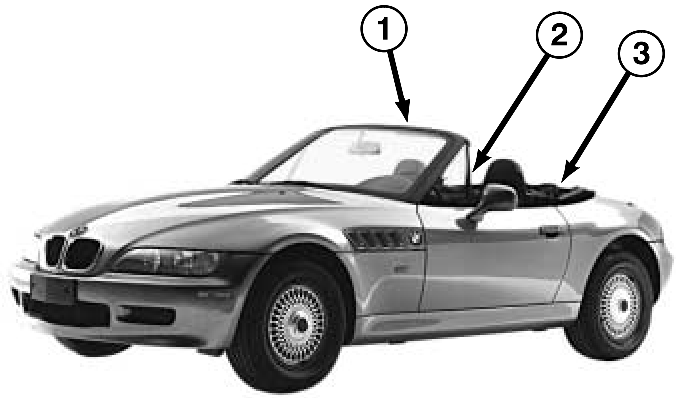


K18363
CONVERTIBLE TOP
RELAY I (CLOSE)

K18364
CONVERTIBLE TOP
RELAY II (OPEN)

M101
CONVERTIBLE TOP
MOTOR

X13146
X23146





S13
PASSENGER'S
DOOR JAMB
SWITCH

X351



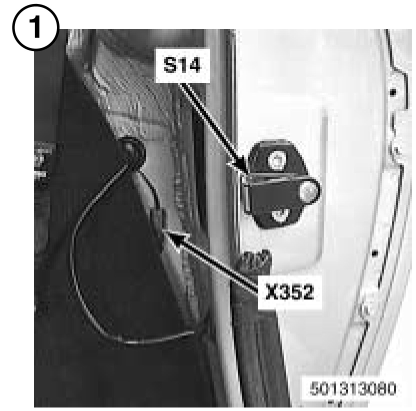
X898



X1715
X10246

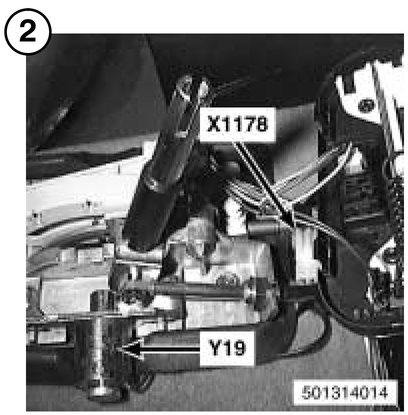
COMPONENT LOCATION VIEWS





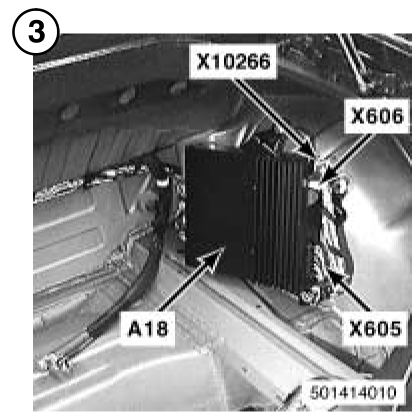
S14
DRIVER'S DOOR
JAMB SWITCH

X352



Y19
SHIFT–LOCK

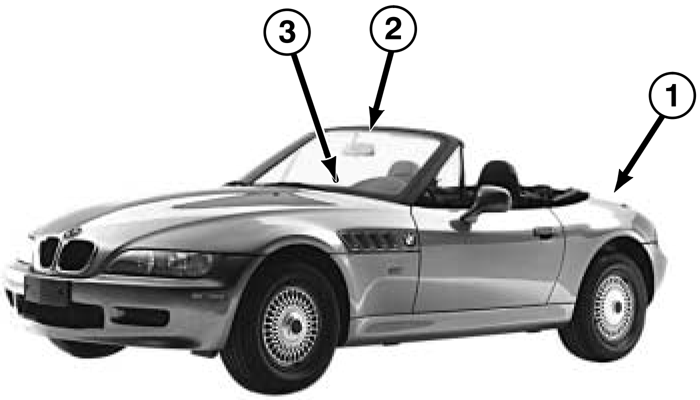
X1178

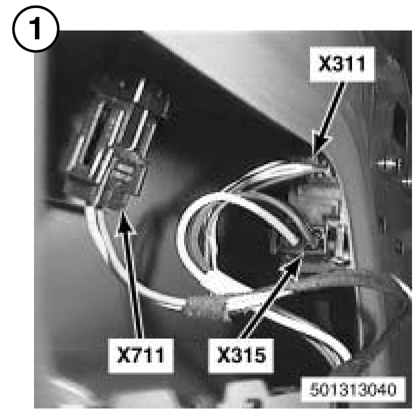


A18
HIFI AMPLIFIER

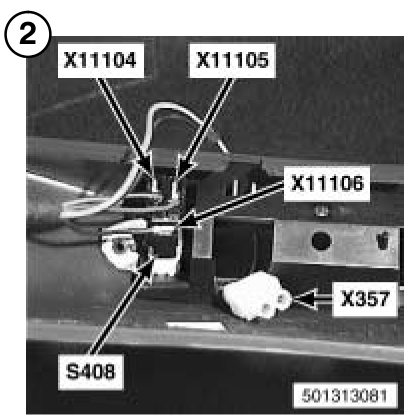
X605
X606
X10266

COMPONENT LOCATION VIEWS





X311
X315
X711



S408
INTERIOR LIGHT
SWITCH

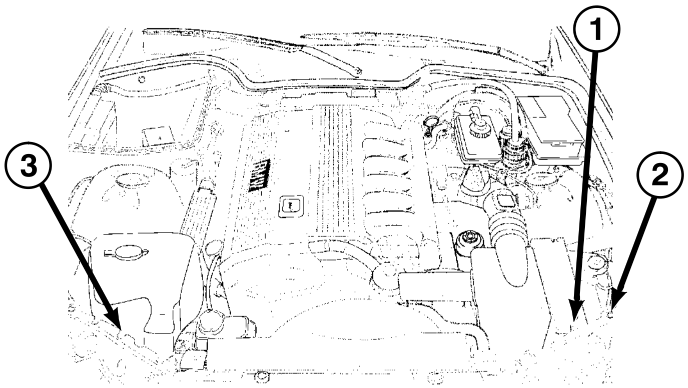
X357
X11104
X11105
X11106

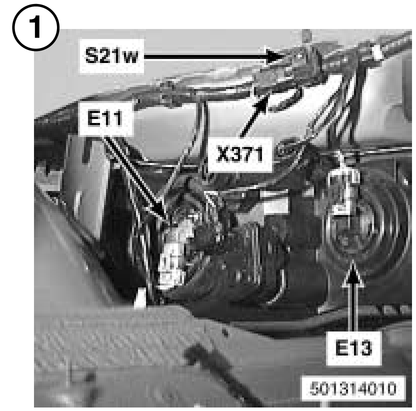


D110
OBD II
CONNECTOR

X19527

COMPONENT LOCATION VIEWS



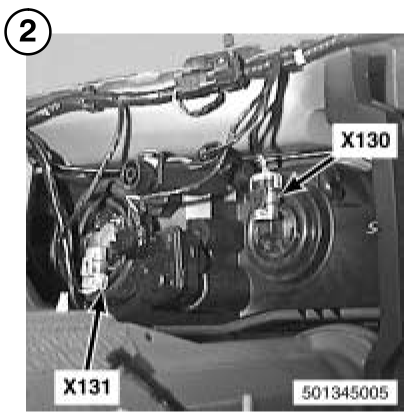


E11
LEFT HIGH BEAM
LIGHT

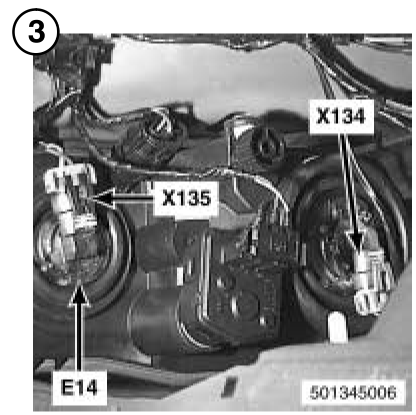
X371

E13
LEFT LOW BEAM
LIGHT

S21w
ENGINE HOOD
SWITCH



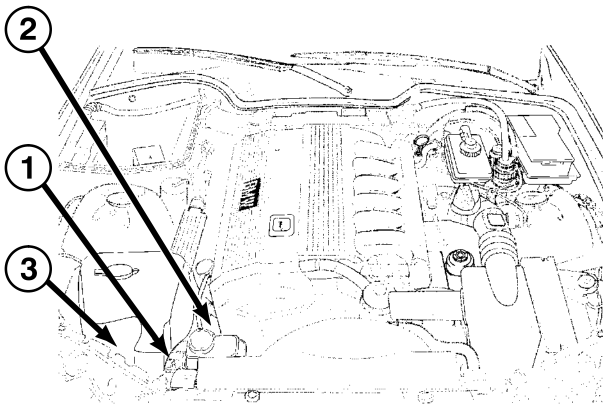
X130
X131

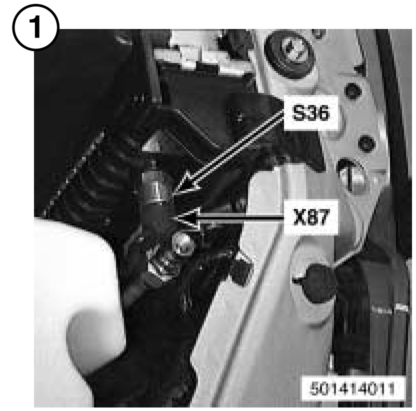


E14
RIGHT LOW BEAM
LIGHT

X134
X135

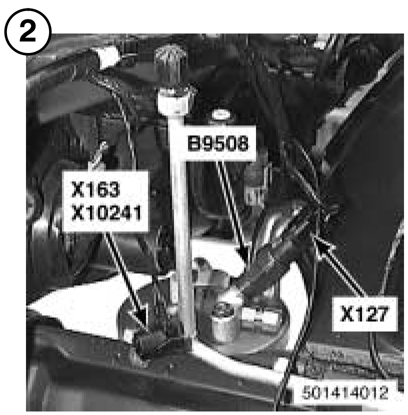
COMPONENT LOCATION VIEWS





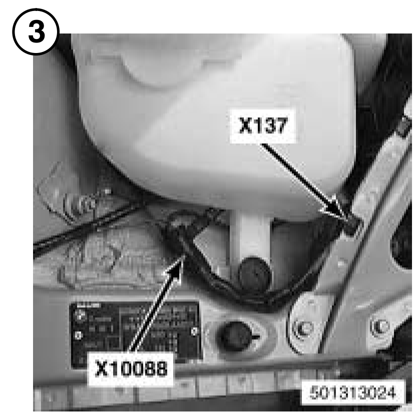
S36
TEMPERATURE
SWITCH

X87



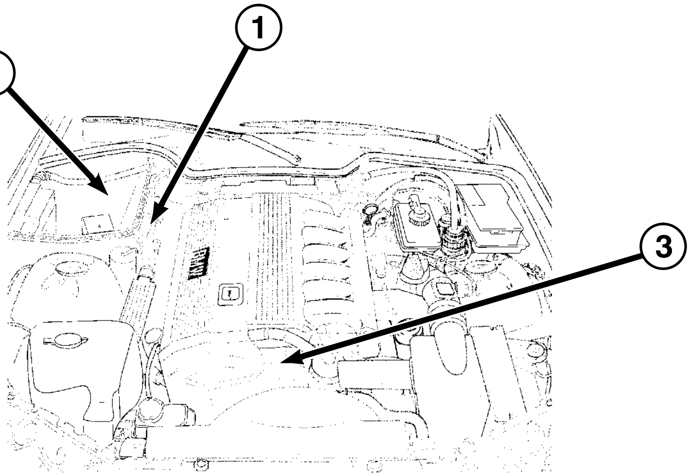
B9508
PRESSURE
SWITCH

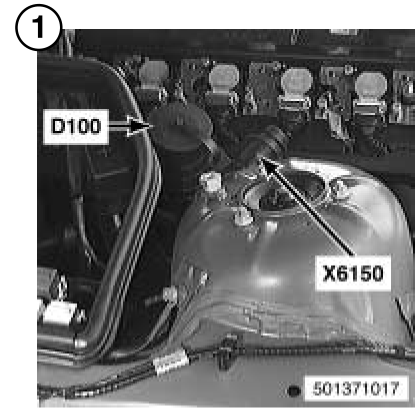
X127
X163
X10241



X137
X10088

COMPONENT LOCATION VIEWS





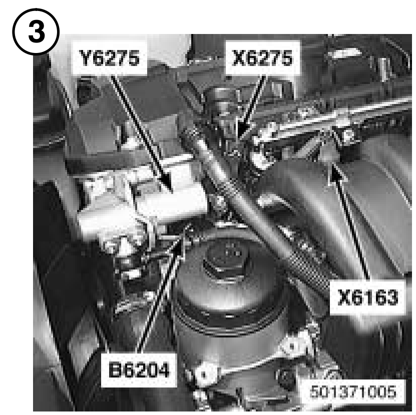
D100
DATA LINK
CONNECTOR

X6150



Y6133
AIR PUMP

X6133

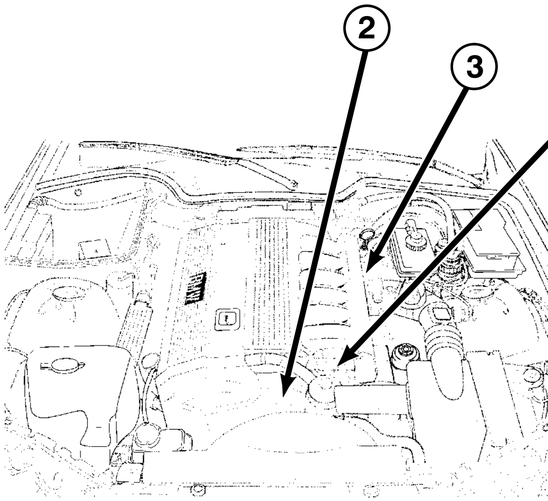


B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)

Y6275
VARIABLE CAM-
SHAFT CONTROL
VALVE 1

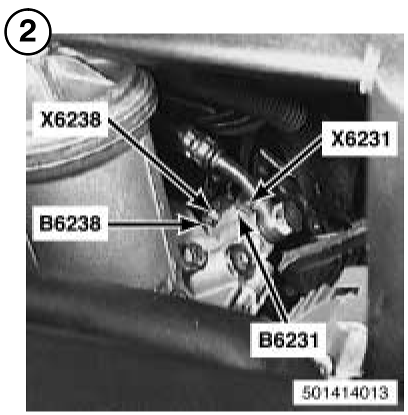
X6163
X6275

COMPONENT LOCATION VIEWS





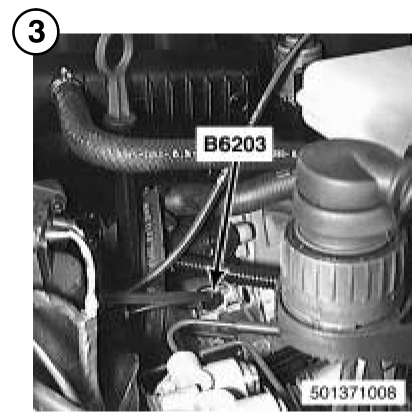
B6256
DUAL
TEMPERATURE
SENSOR
(COOLANT
TEMPERATURE)



B6231
OIL PRESSURE
SWITCH

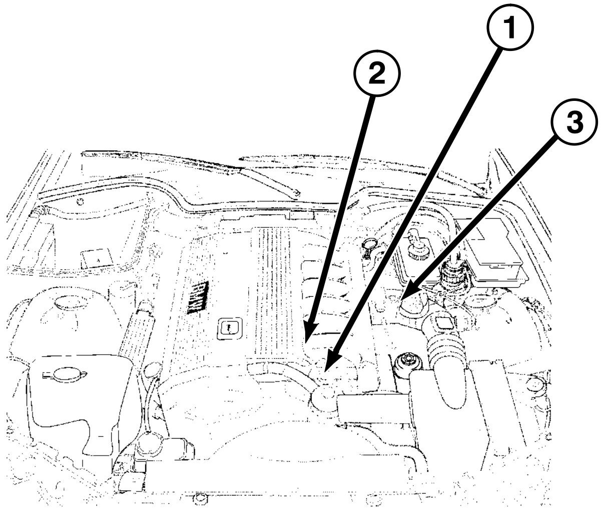
B6238
OIL TEMPERATURE
SENSOR

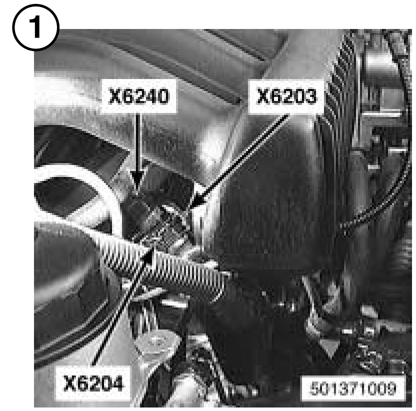
X6231
X6238



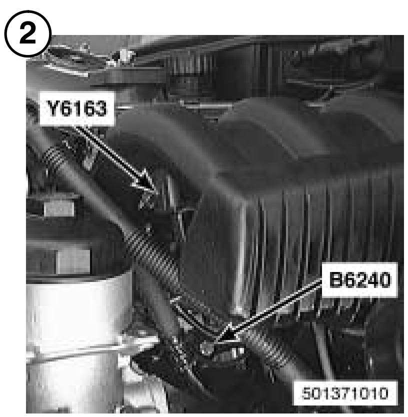
B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS



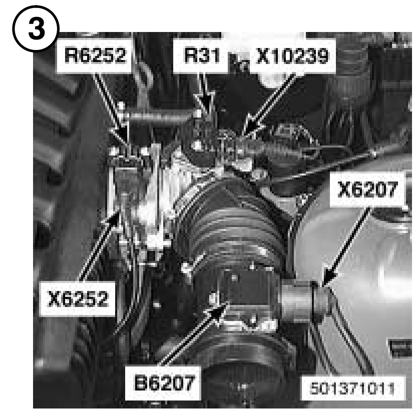


X6203
X6204
X6240



B6240
KNOCK SENSOR

Y6163
SECONDARY AIR
PUMP VALVE



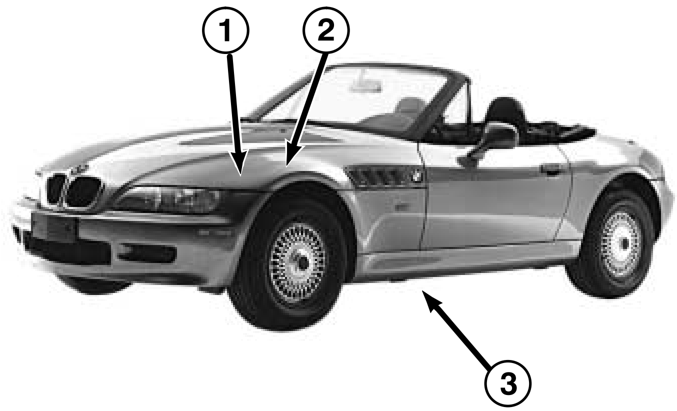
B6207
HOT FILM AIR
MASS METER

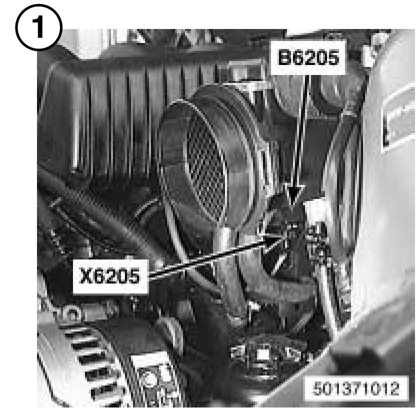
X6207
X6252
X10239

R31
AUXILIARY
THROTTLE
POSITION SENSOR

R6252
THROTTLE
POSITION SENSOR

COMPONENT LOCATION VIEWS





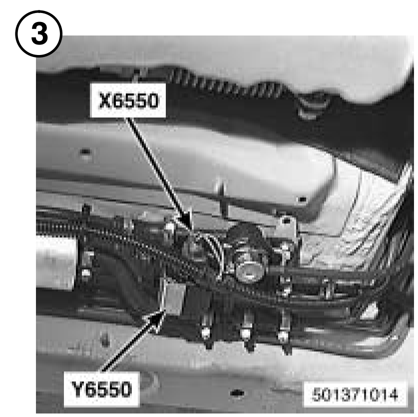
B6205
INTAKE AIR
TEMPERATURE
SENSOR

X6205



Y6120
EVAPORATIVE
EMISSION VALVE

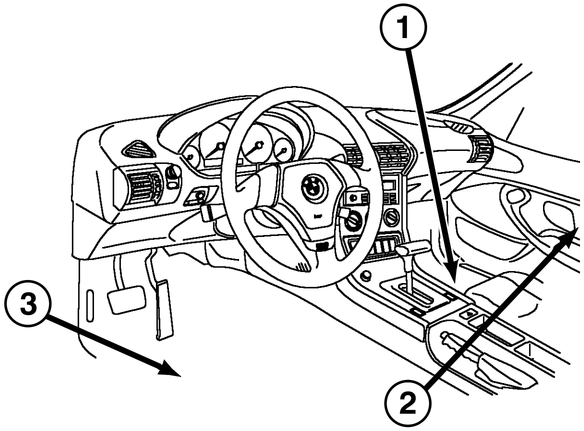
X6120



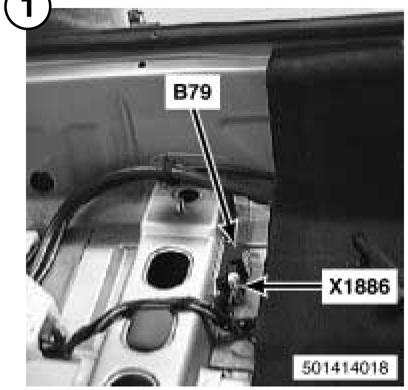
Y6550
SOLENOID VALVE
("RUNNING
LOSSES")

X6550

COMPONENT LOCATION VIEWS



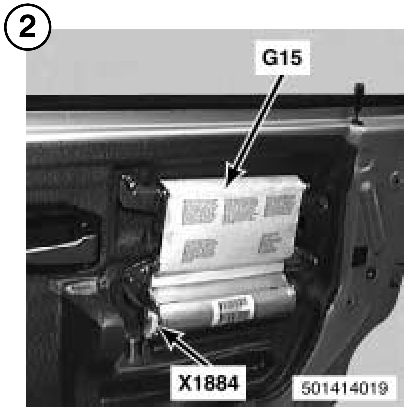
1



B79
PASSENGER'S
SIDE IMPACT
SENSOR

X1886

2



G15
RIGHT SIDE AIR
BAG GAS
GENERATOR

X1884

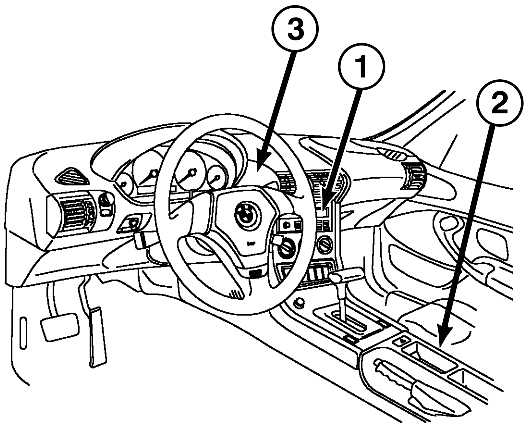
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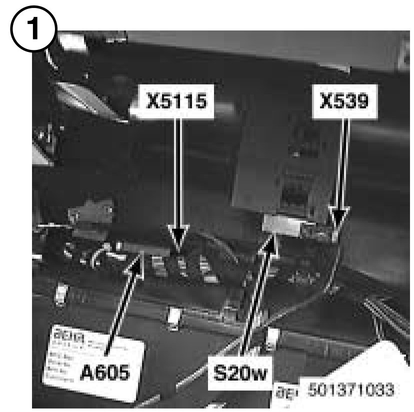


B78
DRIVER'S SIDE IM-
PACT SENSOR

X1885

COMPONENT LOCATION VIEWS

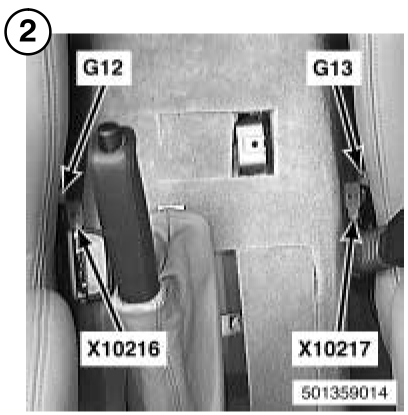




A605
FUSE HOLDER

S20w
RADIO ANTI–
THEFT SWITCH

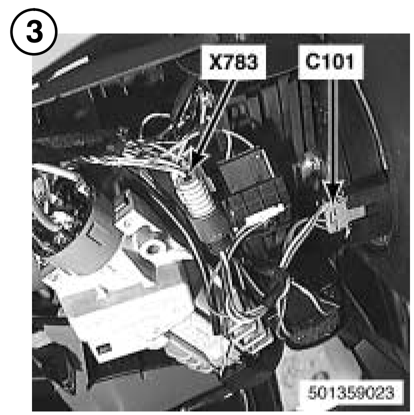
X539
X5115



G12
DRIVER'S SIDE
PYROTECHNICAL
BELT TENSIONER

G13
PASSENGER'S
SIDE
PYROTECHNICAL
BELT TENSIONER

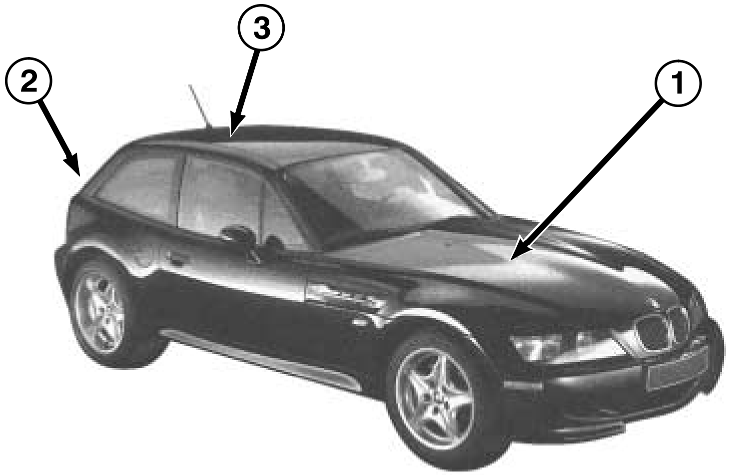
X10216
X10217

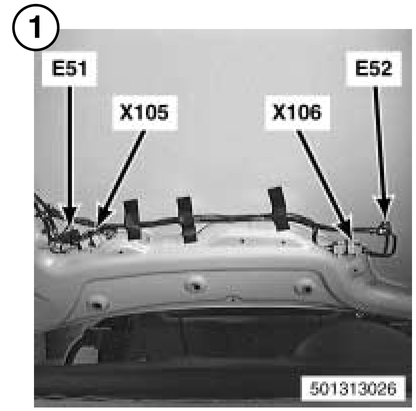


C101
CONTACT RING

X783

COMPONENT LOCATION VIEWS

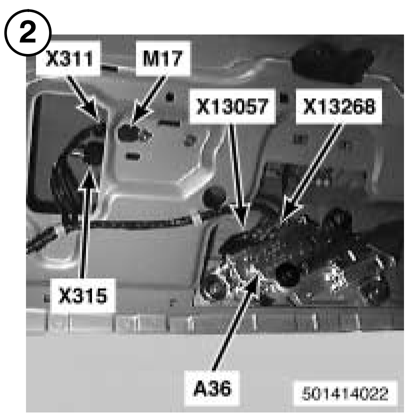




E51
LEFT WASHER JET HEATER

E52
RIGHT WASHER JET HEATER

X105
X106



A36
REAR WIPER/ WASHER INTERVAL CONTROL MODULE

M17
LUGGAGE COMPARTMENT LOCK MOTOR

X311
X315

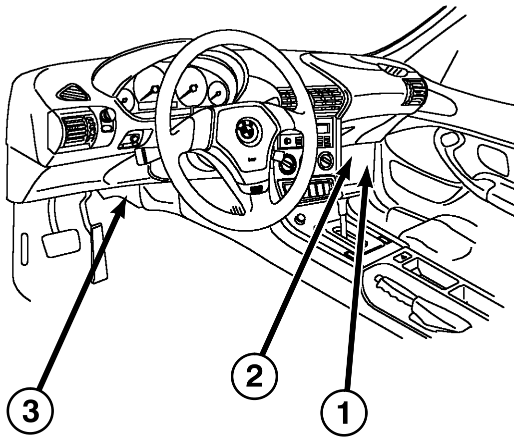
X13057
X13268

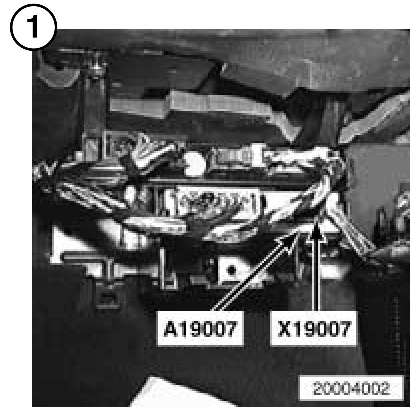


N8
ANTENNA AMPLIFIER AM/FM

X424
X712

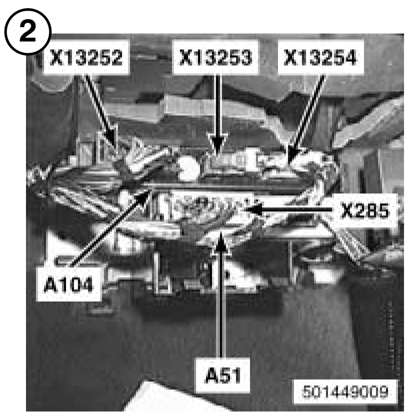
COMPONENT LOCATION VIEWS





A19007
THERMAL OIL
LEVEL SENSOR
(TOENS) CONTROL
MODULE

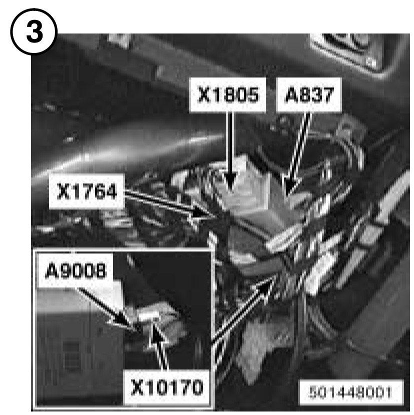
X19007



A51
WIPER/WASHER
MODULE

A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)

X285
X13252
X13253
X13254

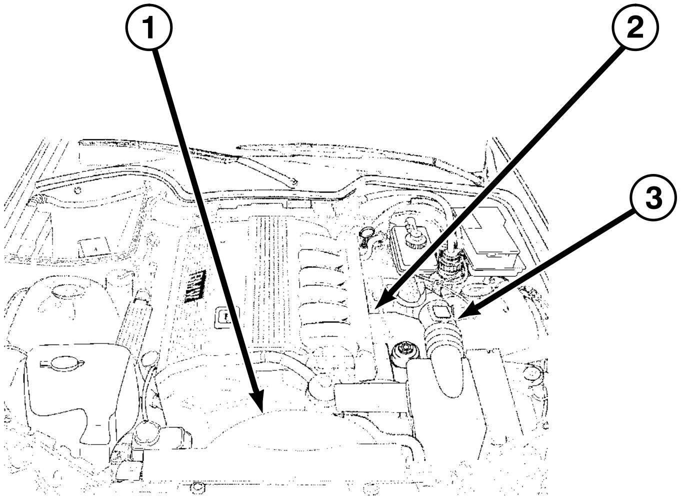


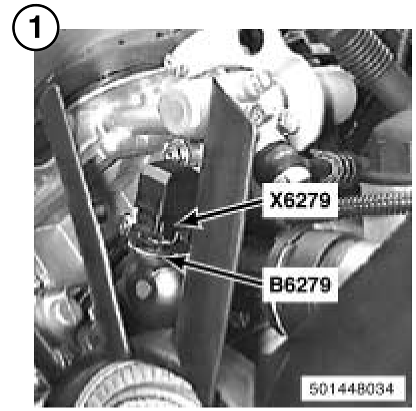
A837
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS III)

A9008
CRUISE CONTROL
INTERFACE

X1764
X1805
X10170

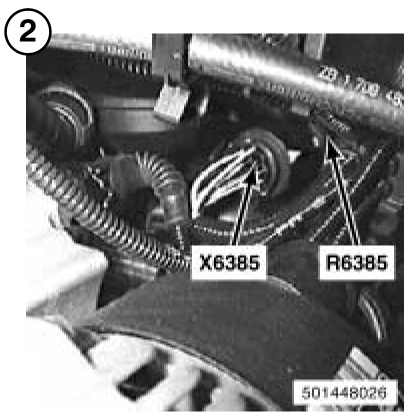
COMPONENT LOCATION VIEWS





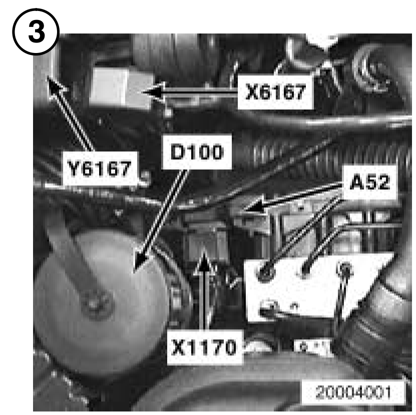
B6279
THERMOSTAT,
CHARACTERISTIC
MAP COOLING

X6279



R6385
THROTTLE
POSITION SEN-
SOR/CRUISE
CONTROL
ACTUATOR

X6385



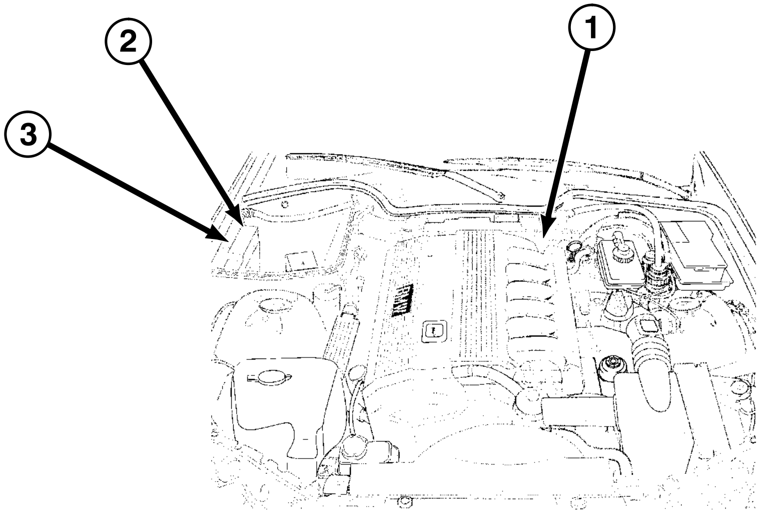
A52
SLIP CONTROL
MODULE
(ABS/ASC)

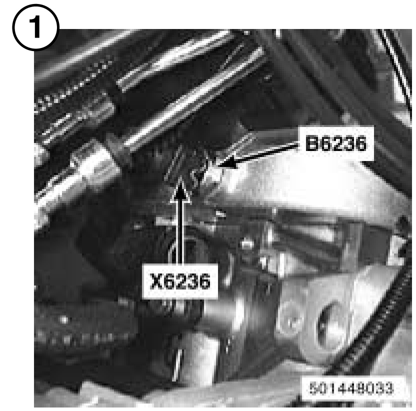
X1170
X6167

D100
DATA LINK
CONNECTOR

Y6167
VALVE, INDIVIDUAL
CONTROL INTAKE
SYSTEM

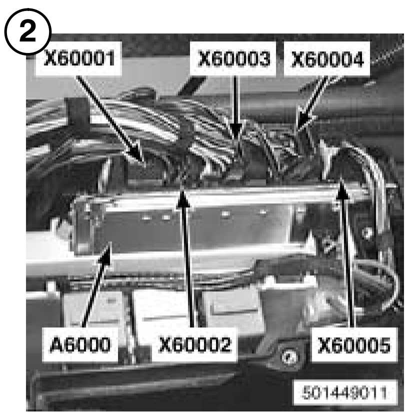
COMPONENT LOCATION VIEWS





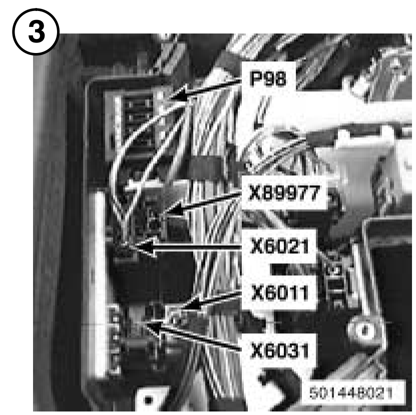
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR

X6236



A6000
ENGINE CONTROL
MODULE (DME)

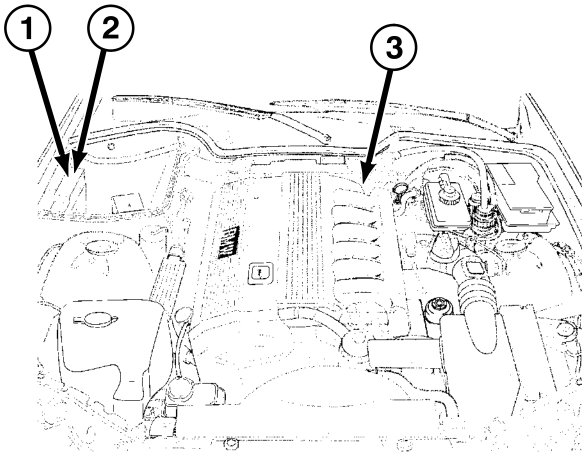
X60001
X60002
X60003
X60004
X60005

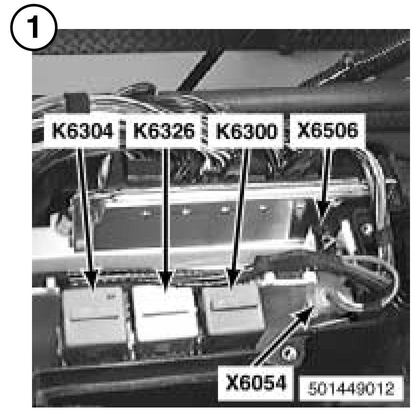


P98
FUSE HOLDER IN
E–BOX

X6011
X6021
X6031
X89977

COMPONENT LOCATION VIEWS



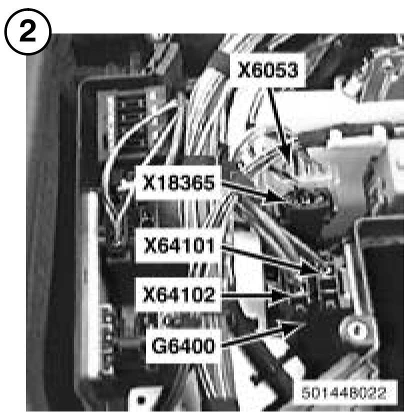


K6300
ENGINE CONTROL
MODULE RELAY

X6054
X6506

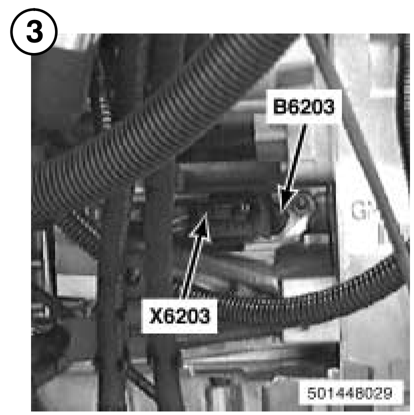
K6304
SECONDARY AIR
PUMP RELAY

K6326
UNLOADER RELAY,
TERMINAL 15



G6400
B+ JUNCTION
POINT E–BOX

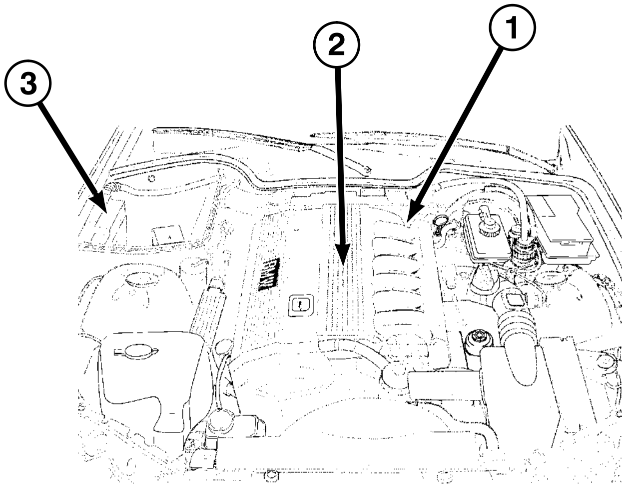
X6053
X18365
X64101
X64102

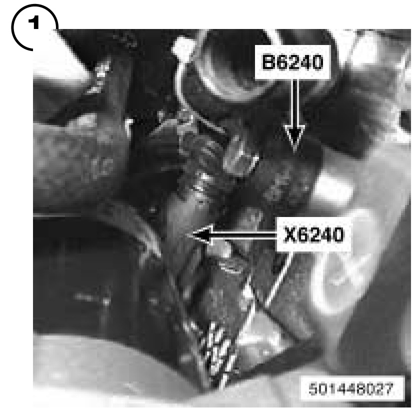


B6203
CRANKSHAFT
POSITION/RPM
SENSOR

X6203

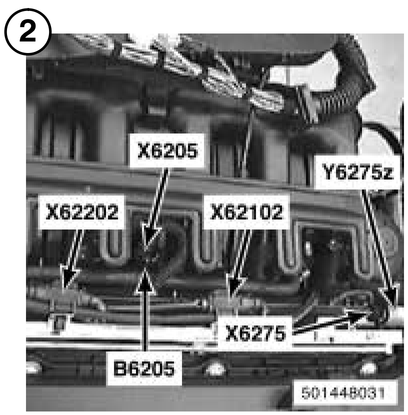
COMPONENT LOCATION VIEWS





B6240
KNOCK SENSOR

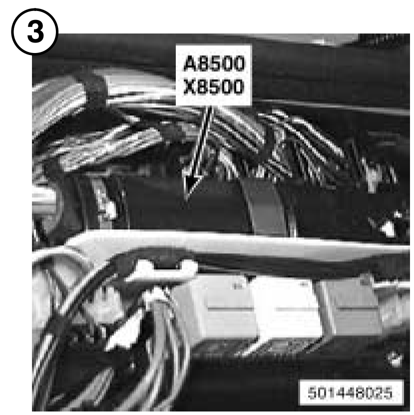
X6240



B6205
INTAKE AIR
TEMPERATURE
SENSOR

Y6275z
VARIABLE CAM-
SHAFT CONTROL
VALVE 1 (INLET)

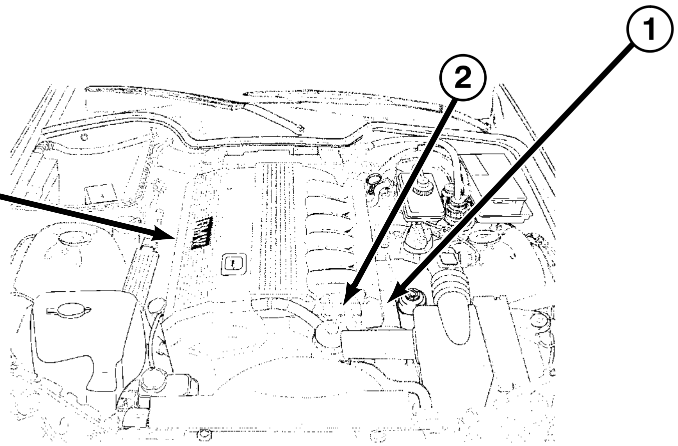
X6205
X6275
X62102
X62202

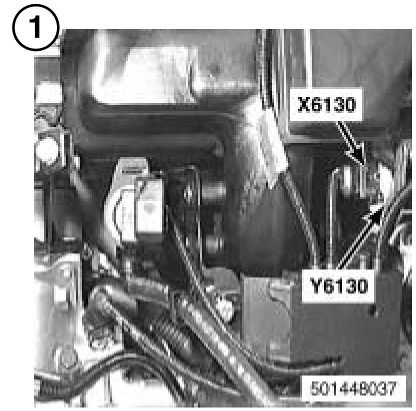


A8500
TRANSMISSION
CONTROL MODULE
(EGS)

X8500

COMPONENT LOCATION VIEWS



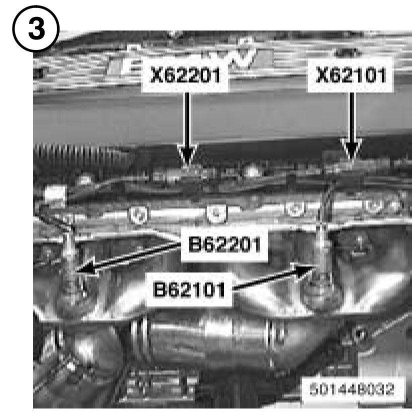


Y6130
IDLE SPEED
CONTROL VALVE

X6130



X6524

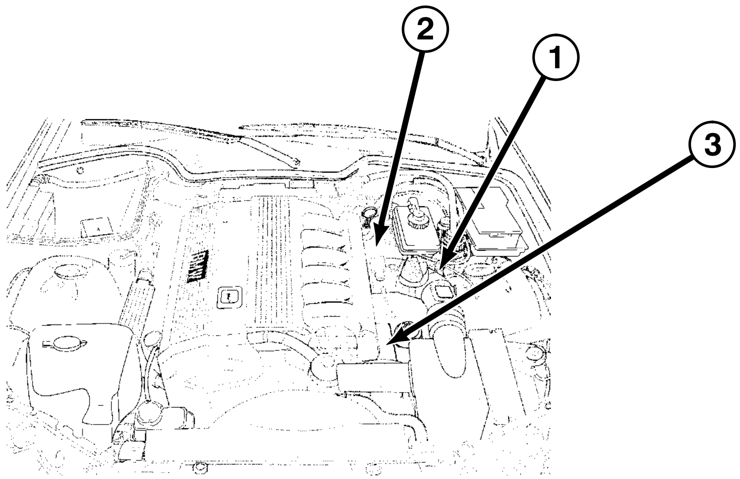


B62101
OXYGEN SENSOR I
(IN FRONT OF
CATALYTIC
CONVERTER)

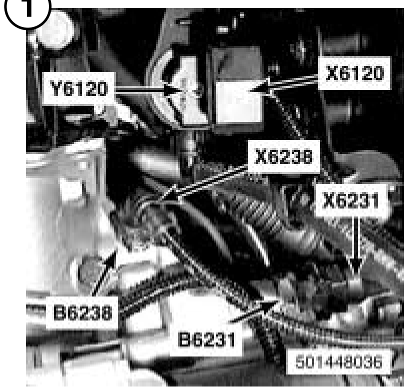
B62201
OXYGEN SENSOR
II (IN FRONT OF
CATALYTIC
CONVERTER)

X62101
X62201

COMPONENT LOCATION VIEWS



1



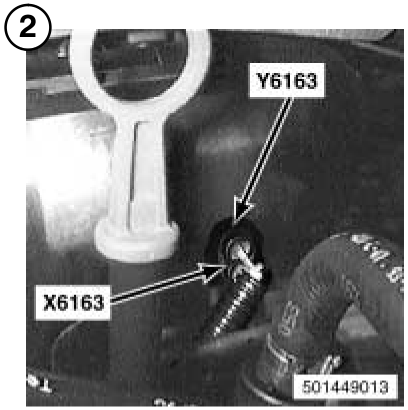
B6231
OIL PRESSURE
SWITCH

X6120
X6231
X6238

B6238
OIL TEMPERATURE
SENSOR

Y6120
EVAPORATIVE
EMISSION VALVE

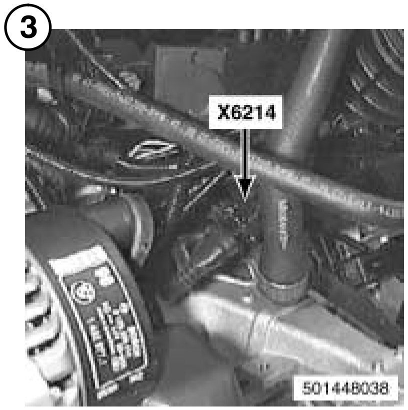
2



Y6163
SECONDARY AIR
PUMP VALVE

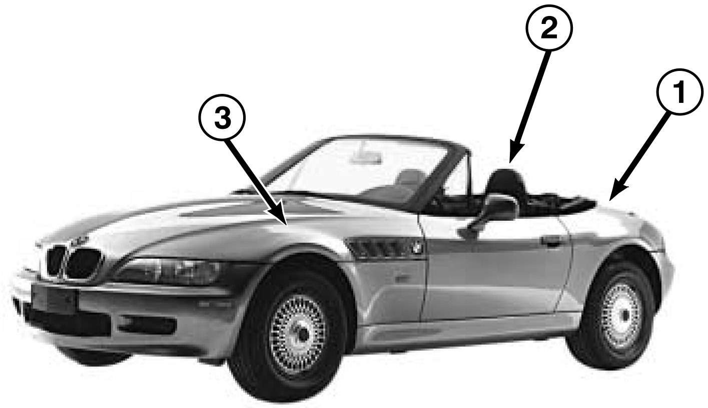
X6163

3

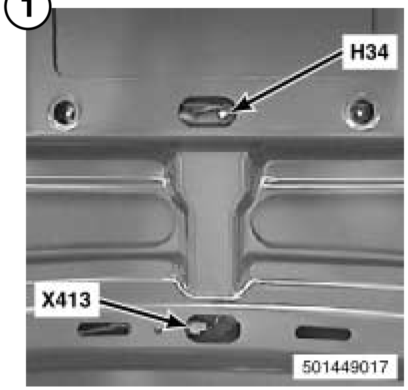


X6214

COMPONENT LOCATION VIEWS



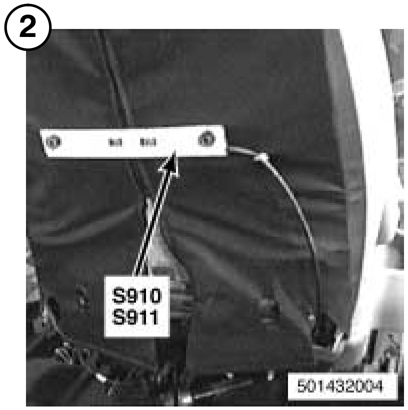
1



H34
HIGH LEVEL STOP
LIGHT

X413

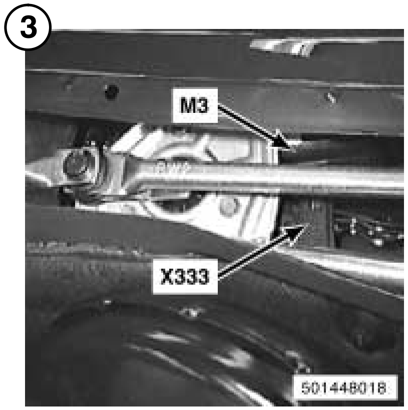
2



S910
DRIVER'S SEAT
LIMIT SWITCH

S911
PASSENGER'S
SEAT LIMIT
SWITCH

3



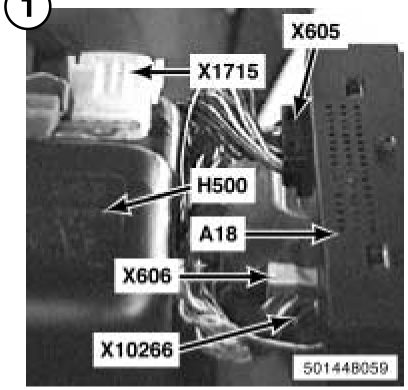
M3
WIPER MOTOR

X333

COMPONENT LOCATION VIEWS



1



A18
HIFI AMPLIFIER

H500
REAR WOOFER

X605
X606
X1715
X10266

2



X9023

3

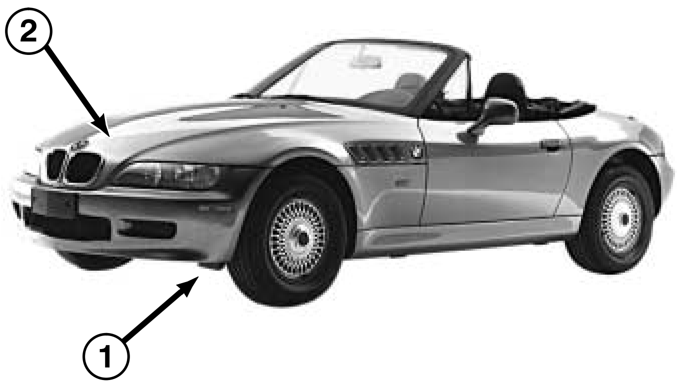


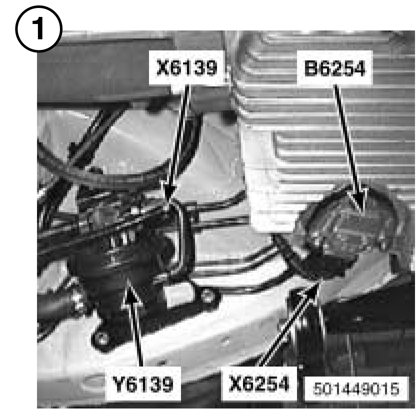
M17
LUGGAGE
COMPARTMENT
LOCK MOTOR

X10285

BMW 3 Z3

COMPONENT LOCATION VIEWS

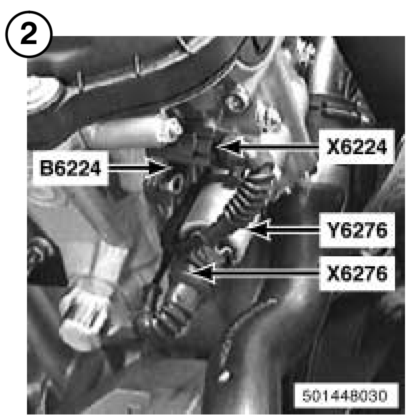




B6254
THERMAL OIL
LEVEL SWITCH

Y6139
LEAKAGE DIAGNO-
SIS PUMP

X6139
X6254



B6224
CAMSHAFT
POSITION SENSOR
2 (OUTLET)

Y6276
VARIABLE CAM-
SHAFT CONTROL
VALVE 2 (OUTLET)

X6224
X6276

8000.0 SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X181–X185	BODY	8000.0-03	X849–X851	DRIVER'S DOOR	8000.0-04
X188	BODY	8000.0-04	X876–X877	RADIO/HIFI/CD	NOT SHOWN
X189	IHKS	NOT SHOWN	X878–X888	BODY	8000.0-03
X191–X197	BODY	8000.0-04	X942	PASSENGER'S DOOR	8000.0-04
X203	BODY	8000.0-03	X985	IHKS	NOT SHOWN
X213	BODY	8000.0-04	X1015–X1019	BODY	8000.0-03
X216–X223	BODY	8000.0-03	X1022–X1027	BODY	8000.0-03
X245–X246	BODY	8000.0-03	X1028–X1029	BODY	8000.0-04
X276	BODY	8000.0-03	X1036–X1047	BODY	8000.0-03
X443	BODY	8000.0-03	X1055	BODY	8000.0-04
X445	BODY	8000.0-03	X1066–X1076	BODY	8000.0-03
X449	BODY	8000.0-04	X1079	BODY	8000.0-04
X450	BODY	8000.0-03	X1091	BODY	8000.0-04
X453–X465	BODY	8000.0-04	X1100–X1115	BODY	8000.0-03
X470	BODY	8000.0-03	X1152–X1164	BODY	8000.0-03
X530	BODY	8000.0-03	X1168–X1169	BODY	8000.0-03
X576–X595	BODY	8000.0-03	X1182	BODY	8000.0-04
X697–X699	BODY	8000.0-03	X1186	BODY	8000.0-03
X704	CONSOLE INSTRUMENTS	NOT SHOWN	X1214	BODY	8000.0-03
X805	BODY	8000.0-04	X1225	BODY	8000.0-04
X806	BODY	8000.0-03	X1234–X1235	BODY	8000.0-04
X814–X818	IHKS	NOT SHOWN	X1236	BODY	8000.0-03
X824–X830	RADIO/HIFI/CD	NOT SHOWN	X1258	BODY	8000.0-03

SPLICE LOCATION VIEWS

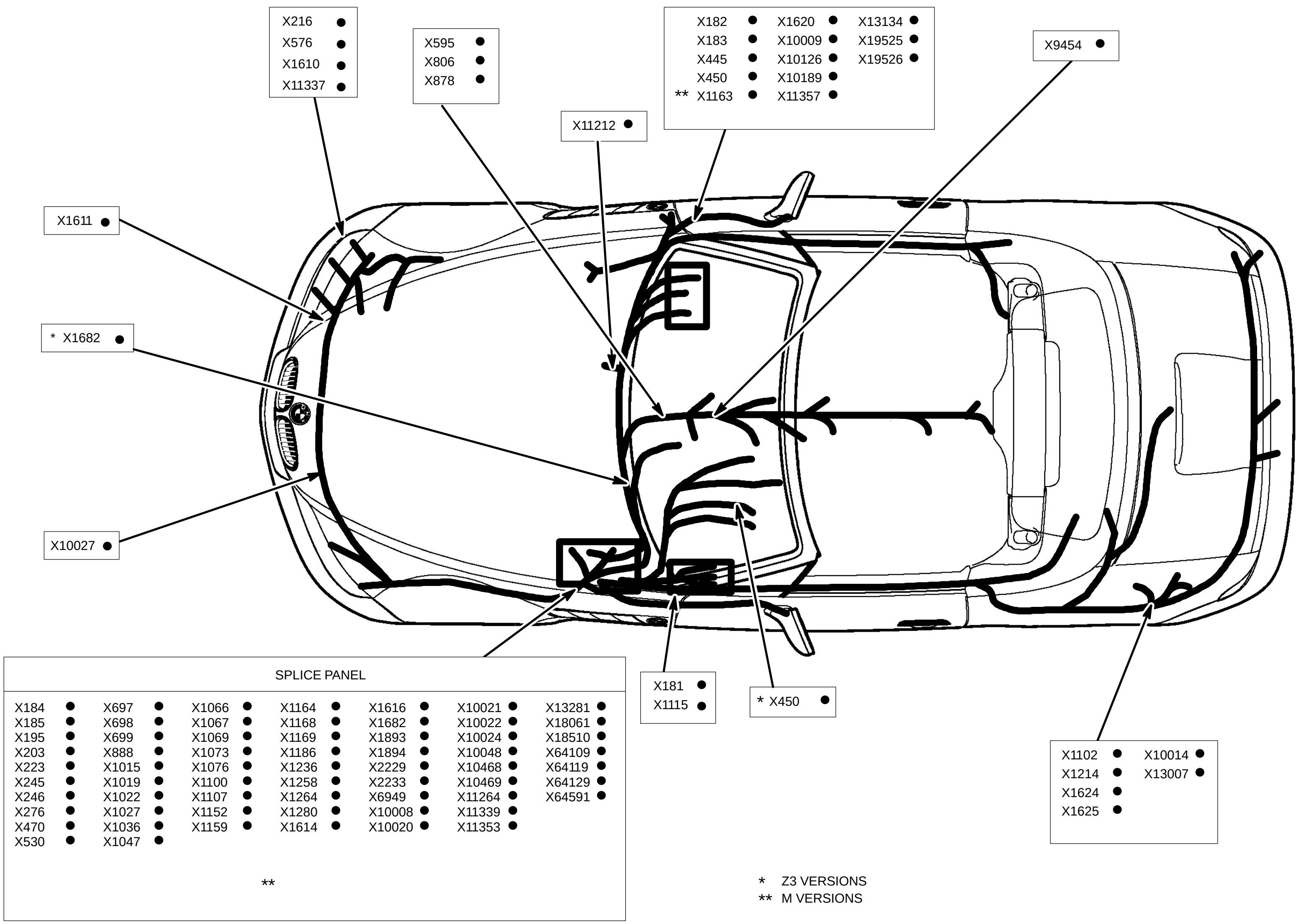
SPLICE	HARNESS	PAGE NUMBER
X1263	BODY	8000.0-04
X1264	BODY	8000.0-03
X1280	BODY	8000.0-03
X1429–X1435	IHKS	NOT SHOWN
X1608	BODY	8000.0-04
X1610–X1616	BODY	8000.0-03
X1617–X1618	BODY	8000.0-04
X1620–X1625	BODY	8000.0-03
X1682	BODY	8000.0-03
X1683–X1894	BODY	8000.0-03
X1893–X1894	BODY	8000.0-03
X2233	BODY	8000.0-03
X6411–X6415	S52 ENGINE (M VERSIONS)	8000.0-06
X6420	S52 ENGINE (M VERSIONS)	8000.0-06
X6458	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X6458–X6460	S52 ENGINE (M VERSIONS)	8000.0-06
X6460	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X6475	S52 ENGINE (M VERSIONS)	8000.0-06
X6492	S52 ENGINE (M VERSIONS)	8000.0-06
X6810	S52 ENGINE (M VERSIONS)	8000.0-06
X6820–X6822	S52 ENGINE (M VERSIONS)	8000.0-06
X6830–X6835	S52 ENGINE (M VERSIONS)	8000.0-06
X6849	S52 ENGINE (M VERSIONS)	8000.0-06
X6832–X6836	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X6863–X6868	S52 ENGINE (M VERSIONS)	8000.0-06
X6900	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X6960–X6965	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X8000–X8015	S52 ENGINE (M VERSIONS)	8000.0-06
X8038–X8051	S52 ENGINE (M VERSIONS)	8000.0-06
X8071–X8074	S52 ENGINE (M VERSIONS)	8000.0-06
X8073	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X8103	S52 ENGINE (M VERSIONS)	8000.0-06
X8564–X8565	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X9454	BODY	8000.0-03
X9806	CONSOLE INSTRUMENTS	NOT SHOWN
X9992–X9993	DRIVER’S SEAT	NOT SHOWN
X9996–X9997	PASSENGER’S SEAT	NOT SHOWN
X10008	BODY	8000.0-03
X10009	BODY (Z3 VERSIONS)	8000.0-03
X10009	BODY (M VERSIONS)	8000.0-04
X10014–X10048	BODY	8000.0-03
X10064	BODY	8000.0-04
X10126	BODY	8000.0-03
X10189	BODY	8000.0-03
X10464	RADIO/HIFI	NOT SHOWN
X10468–X10469	BODY	8000.0-03

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X11212	BODY	8000.0-03
X11264	BODY	8000.0-03
X11291	BODY	8000.0-04
X11337–X11353	BODY	8000.0-03
X11355	BODY	8000.0-04
X11357	BODY	8000.0-03
X13007	BODY	8000.0-03
X13011–X13047	BODY	8000.0-04
X13134	BODY	8000.0-03
X13304	BODY	8000.0-04
X13281	BODY	8000.0-03
X18061	BODY	8000.0-03
X18510	BODY	8000.0-03
X19513	RADIO/HIFI/CD	NOT SHOWN
X19525–X19526	BODY	8000.0-03
X64109	BODY	8000.0-03
X64119	BODY	8000.0-03
X64129	BODY	8000.0-03
X64591	BODY (Z3 VERSIONS)	8000.0-03
X64591	BODY (M VERSIONS)	8000.0-04
X68309	IHKS	NOT SHOWN

SPLICE LOCATION VIEWS

BODY HARNESS

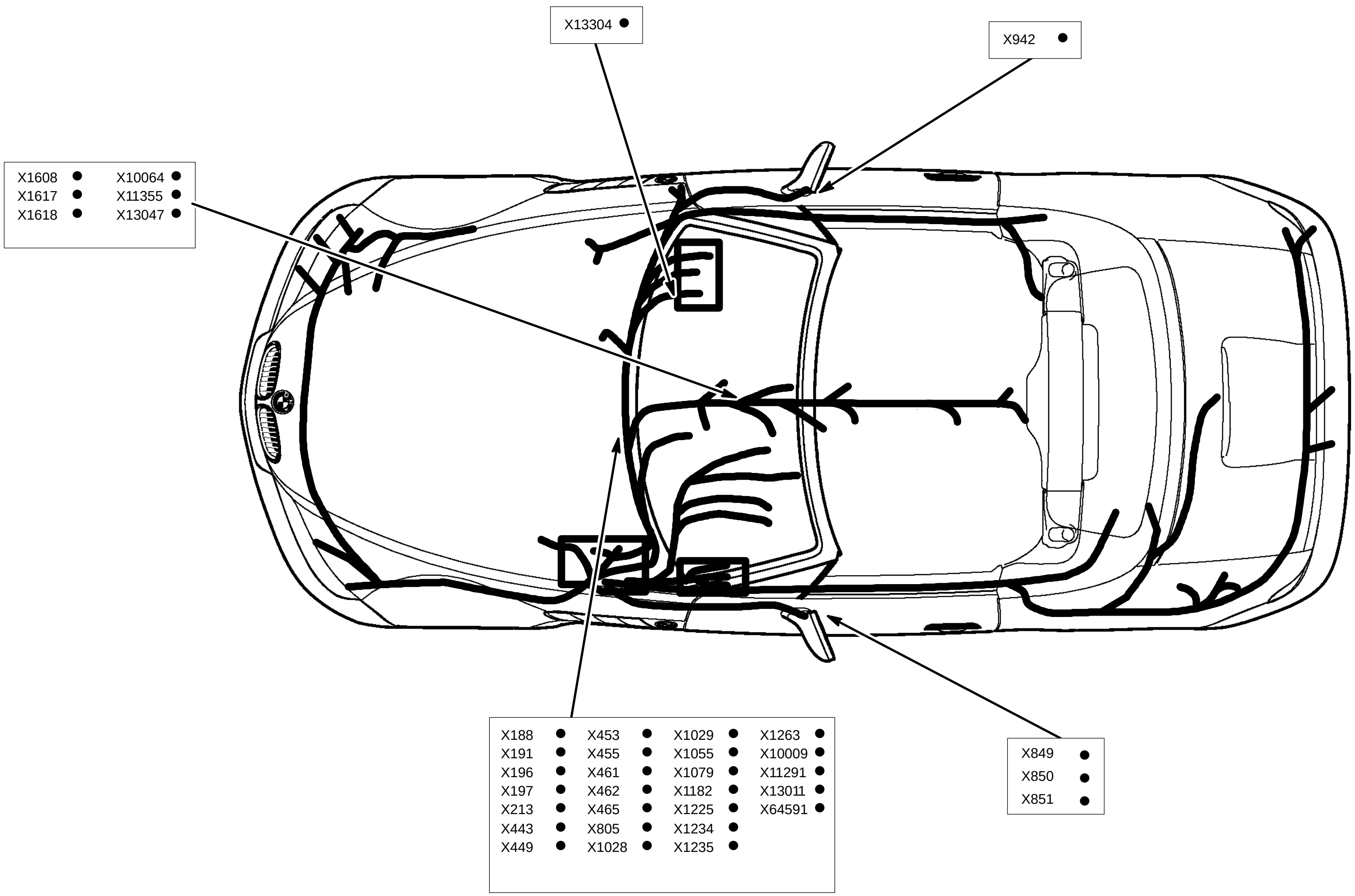


* Z3 VERSIONS
** M VERSIONS

Z3

SPLICE LOCATION VIEWS

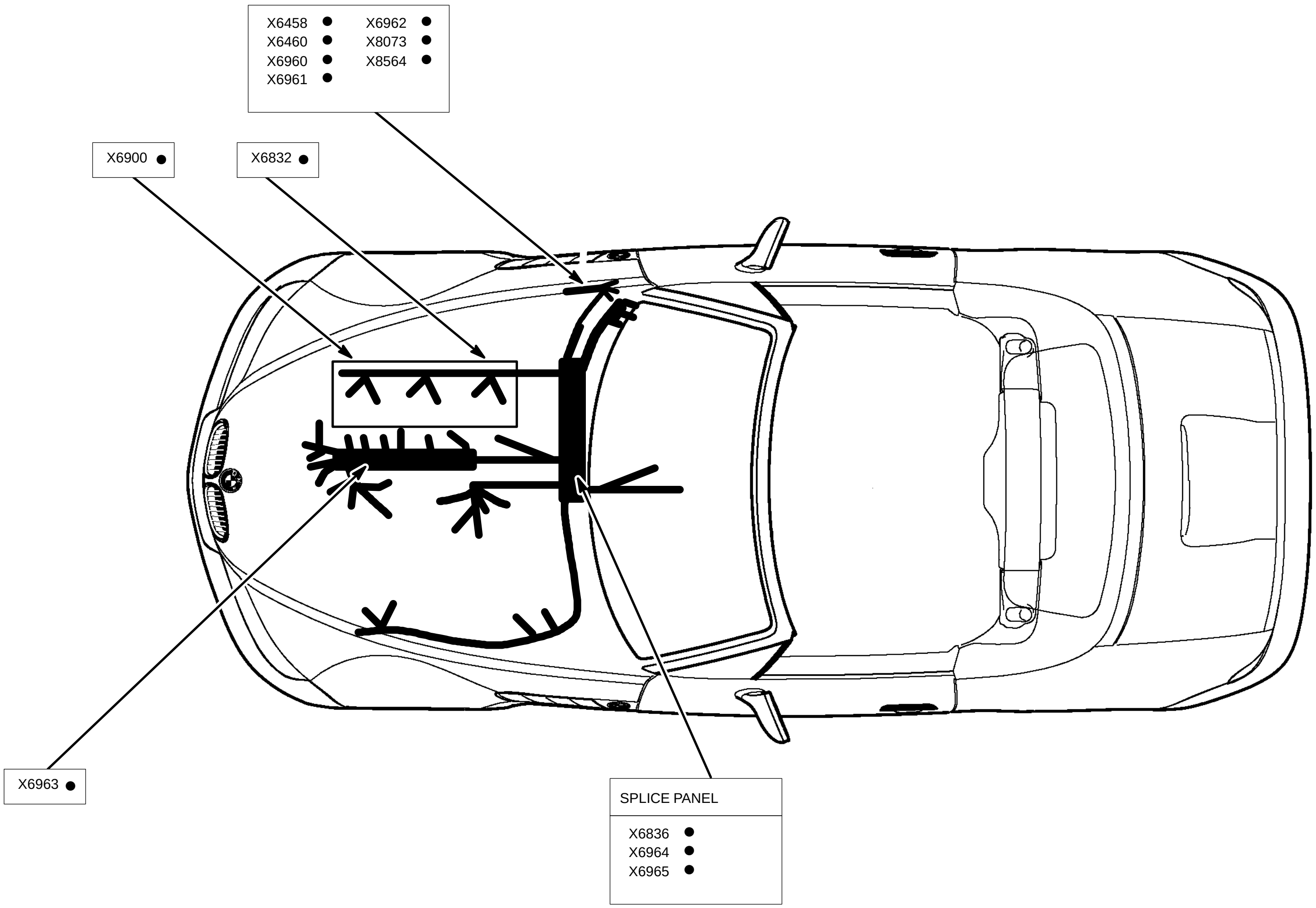
BODY HARNESS



SPLICE LOCATION VIEWS

Z3 VERSIONS

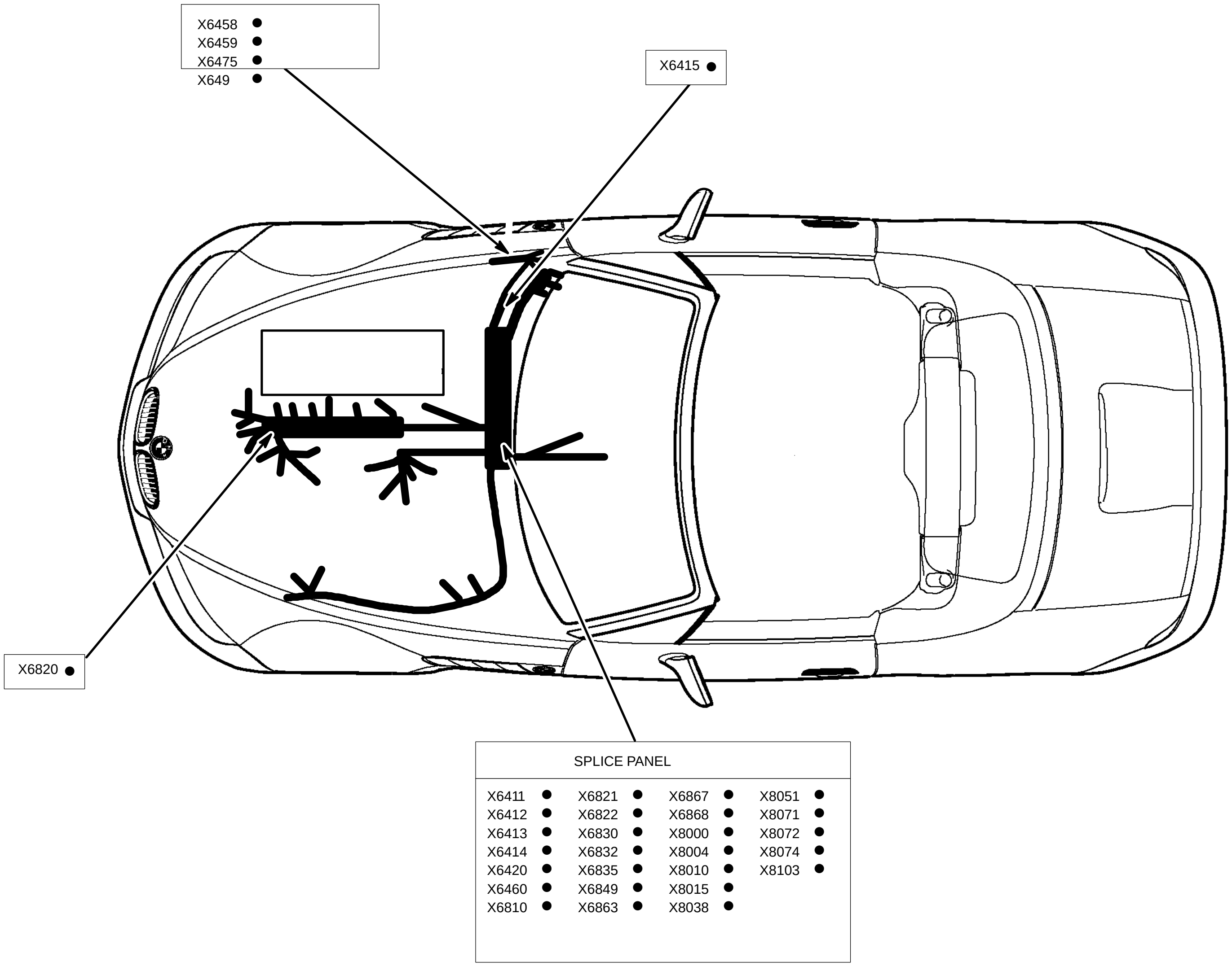
ENGINE HARNESS M52



SPLICE LOCATION VIEWS

M VERSIONS

ENGINE HARNESS S52



8500.0 CONNECTOR VIEWS

FIG. 1

B880001.00

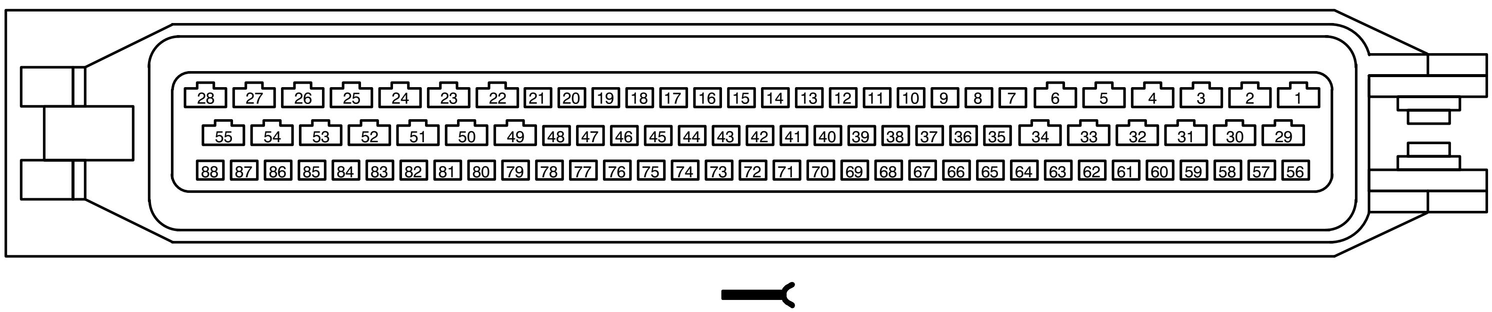


FIG. 2

B040030.00

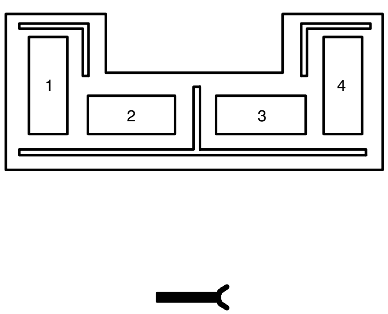


FIG. 3

B260005.00

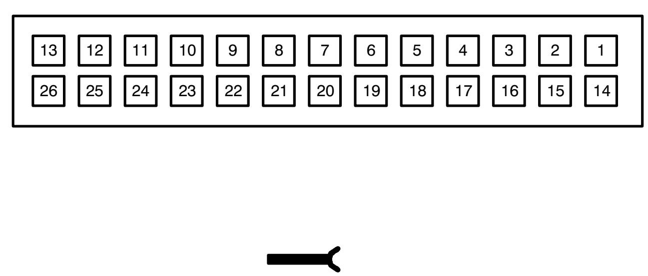


FIG. 1

B030024

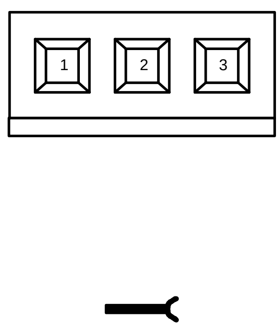


FIG. 2

B030046.00

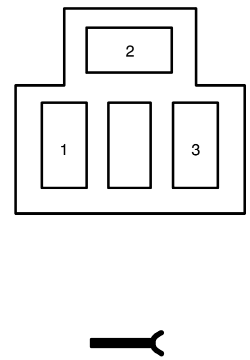


FIG. 3

B120001.01

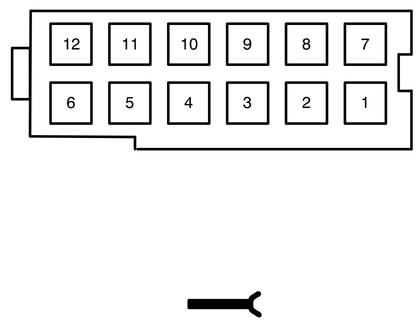


FIG. 4

B090008.00

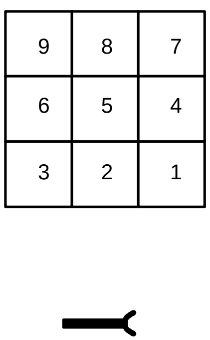


FIG. 5

B120002.02

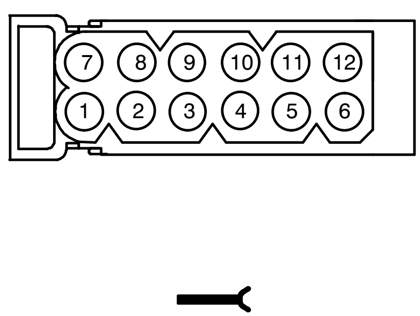
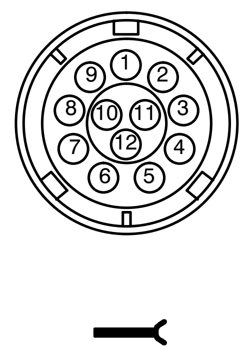


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B080002.00

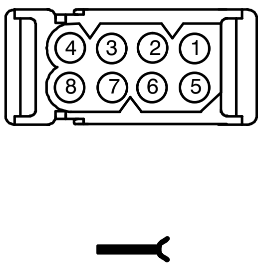


FIG. 2

B170001.00

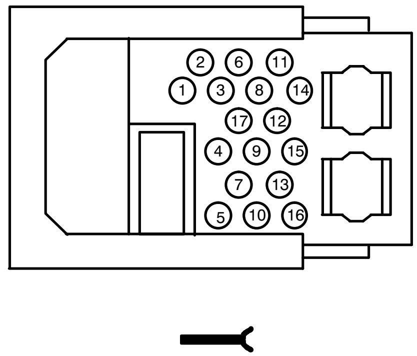


FIG. 3

B100008.00

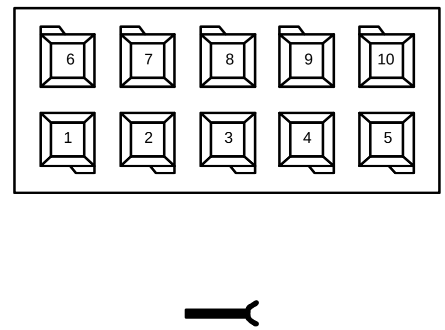


FIG. 4

B120004.01

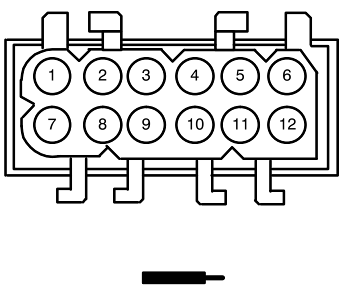


FIG. 5

B030004.01

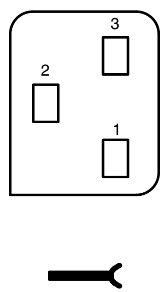
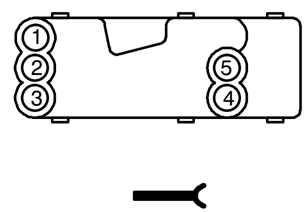


FIG. 6

B050003.00



CONNECTOR VIEWS

FIG. 1

B040004.00

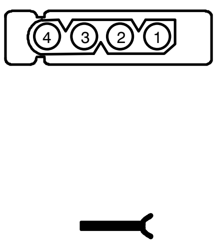


FIG. 2

B520001.00

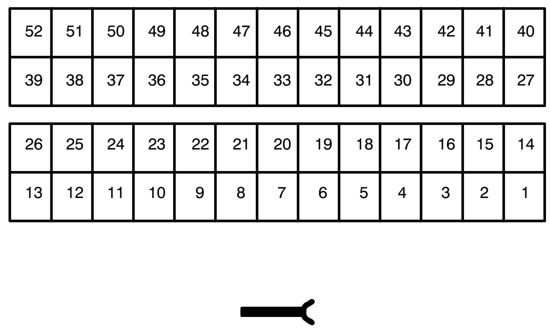


FIG. 3

B080001.00

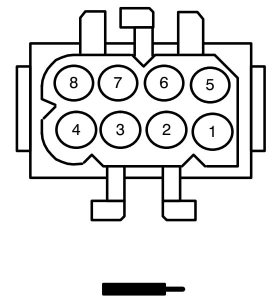


FIG. 4

B090002.00

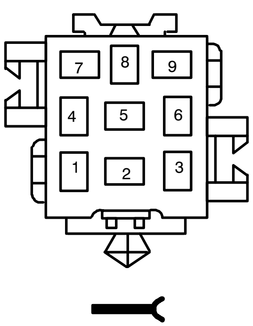


FIG. 5

B260002.01

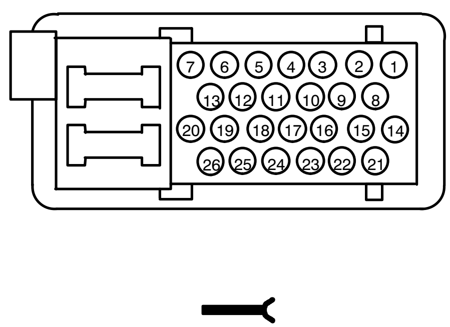
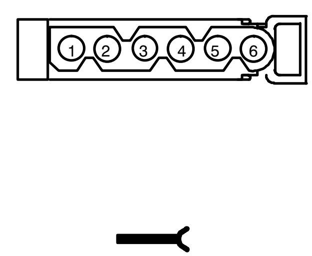


FIG. 6

B060001.02



CONNECTOR VIEWS

FIG. 1

B200003.00

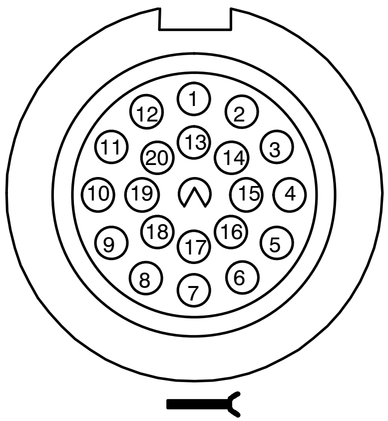


FIG. 2

B240002.00

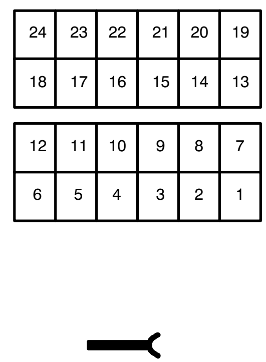


FIG. 3

B030003.00

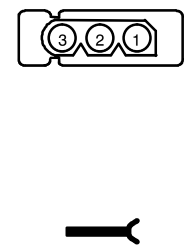


FIG. 4

B250001.02

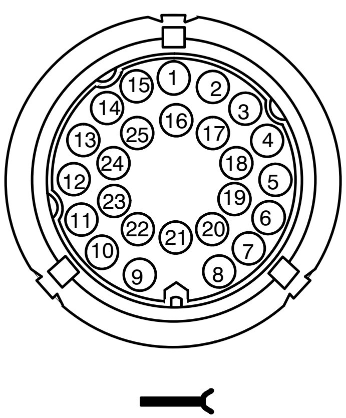


FIG. 5

B060019.03

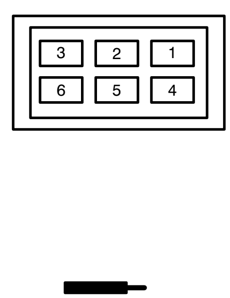
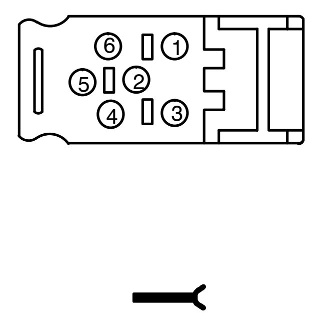


FIG. 6

B060036.00



CONNECTOR VIEWS

FIG. 1

B150002.00

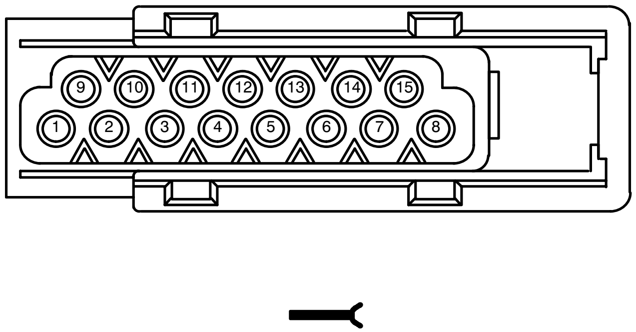


FIG. 2

B100014.00

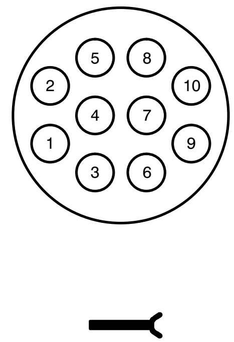


FIG. 3

B060038.00

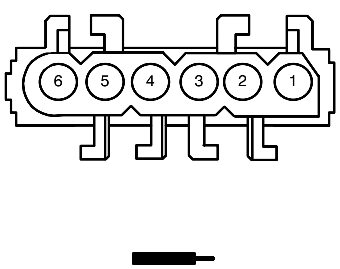


FIG. 4

B040027.00

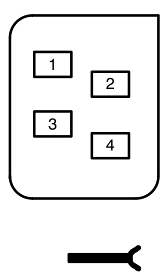
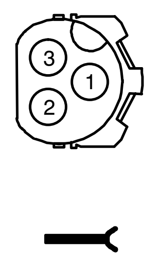


FIG. 5

B030006.00



CONNECTOR VIEWS

FIG. 1

B0400028.00

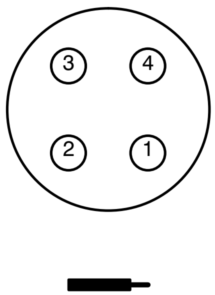


FIG. 2

B080020.00

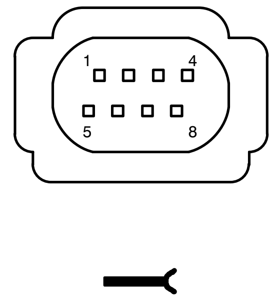


FIG. 3

B0300044.00

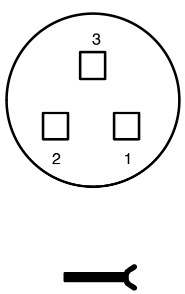


FIG. 4

B030049.00

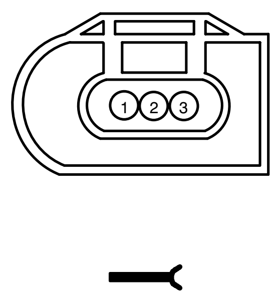


FIG. 5

B060041.00

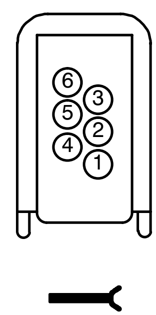


FIG. 1

B040026

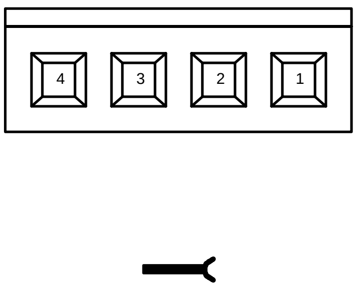


FIG. 2

B120006.00

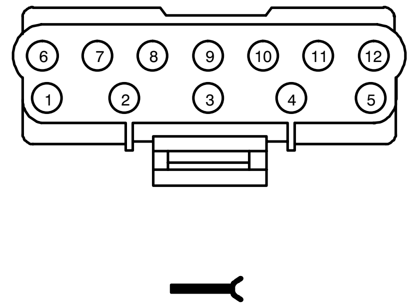


FIG. 3

B180000.00

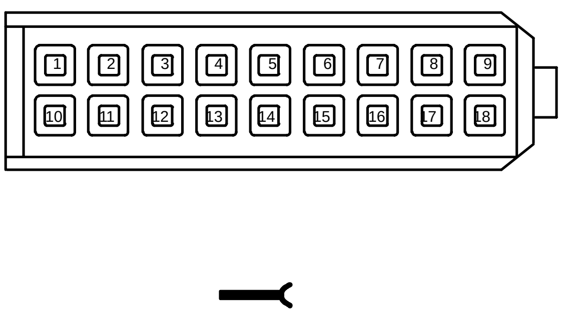


FIG. 4

B060037.00

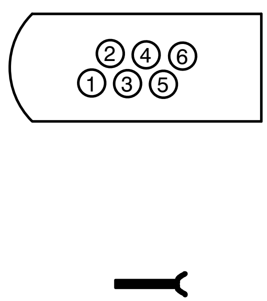
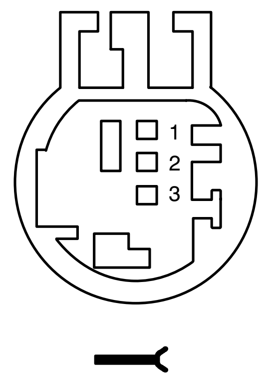


FIG. 5

B030042.00



CONNECTOR VIEWS

FIG. 1

B160002.00

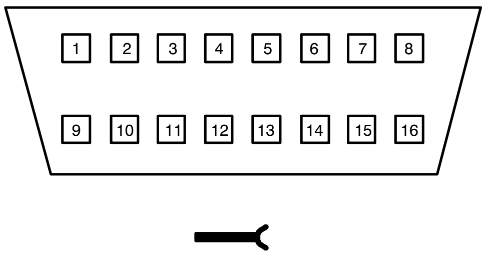


FIG. 2

B060013.00

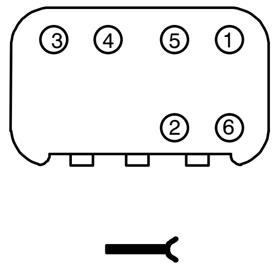


FIG. 3

B080013.00

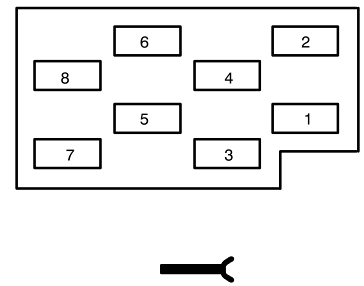
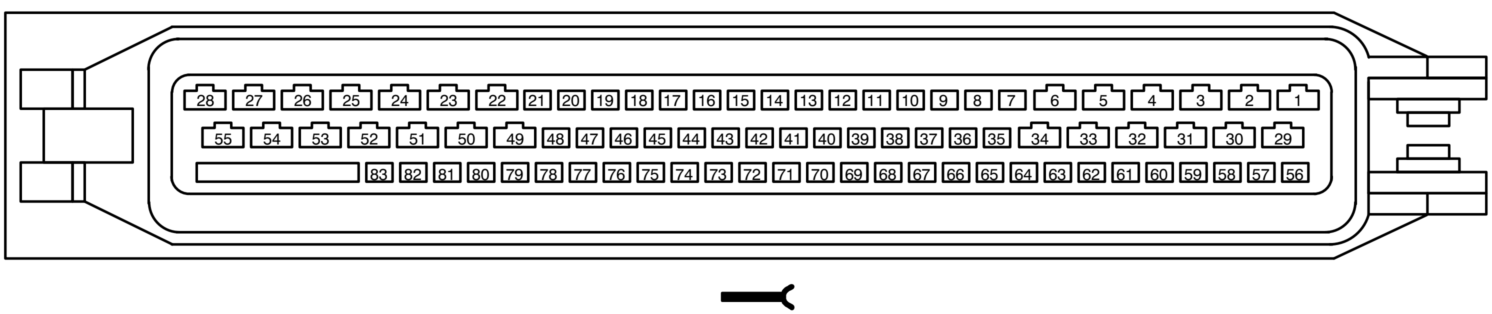


FIG. 4

B830001.00



CONNECTOR VIEWS

FIG. 1

B400000.00

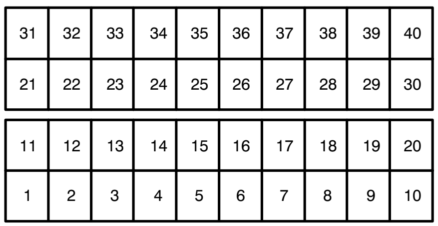


FIG. 2

B060043.00

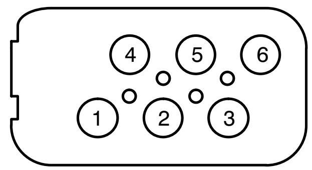


FIG. 3

B070012.00

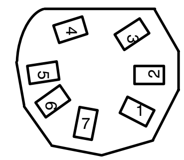


FIG. 4

B250004.00

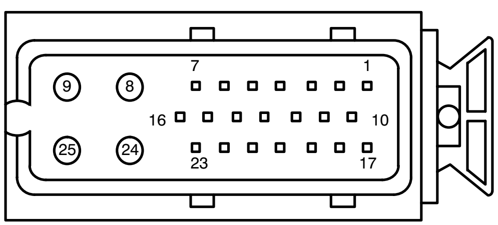
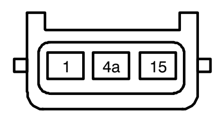


FIG. 5

B030015.08



CONNECTOR VIEWS

FIG. 1

B030048a

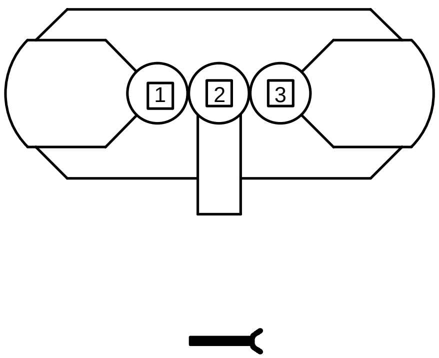


FIG. 2

B030018.02

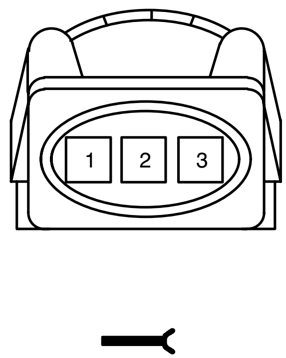


FIG. 3

B040023.02

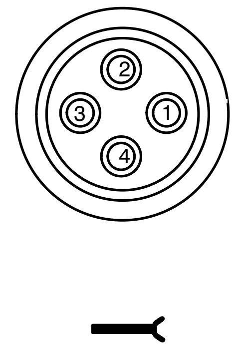


FIG. 4

B040023.01

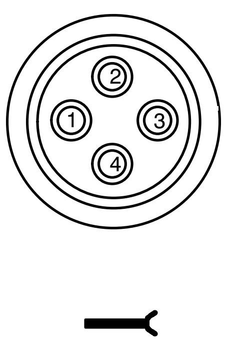
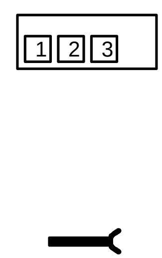


FIG. 5

B030036.01



BMW 3 Z3

CONNECTOR VIEWS

FIG. 1

B030022.00

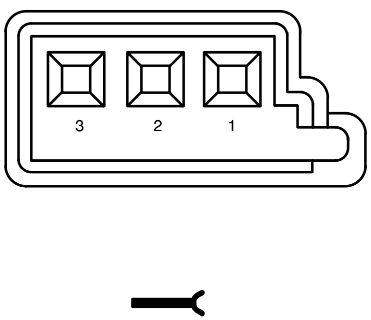


FIG. 2

B500000.00

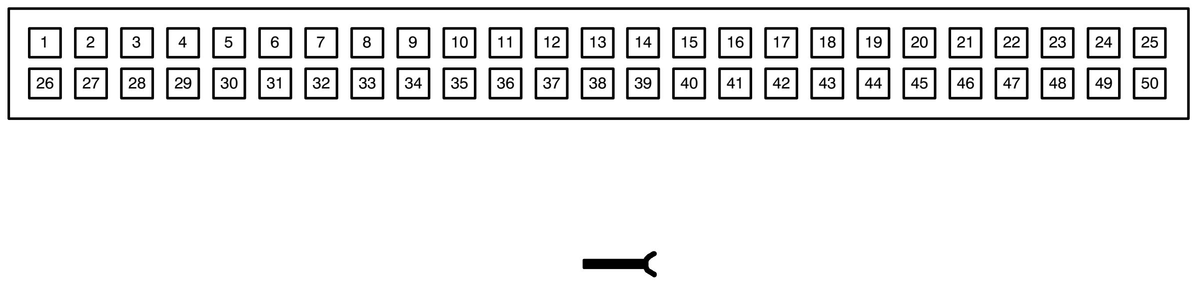


FIG. 3

B060042

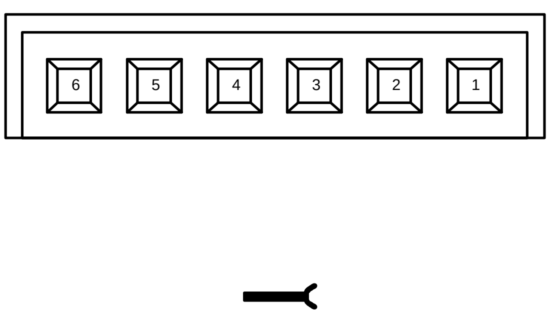


FIG. 4

B160001.00

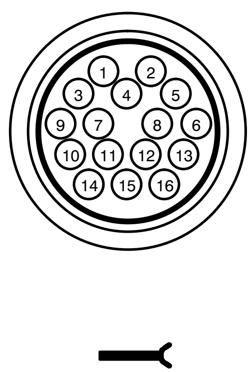


FIG. 5

B100004.02

